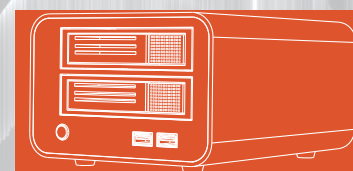
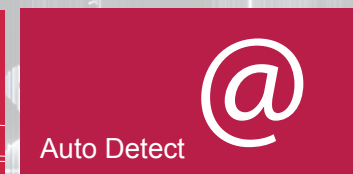
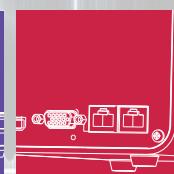
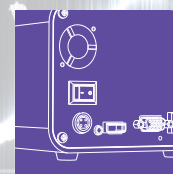
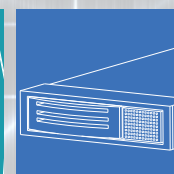
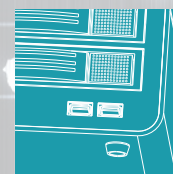


NETWORK VIDEO RECORDER



Network Video Recorder (NVR) User manual



Version v1.1

About this document

Purpose

This document is for Network Video Recorders, including the product features, hardware installation, network access, network configuration, daily maintenance, and troubleshooting.






Intended Audience

This document is intended for:

- Technical support engineer
- Maintenance engineer

Symbol Conventions

This symbol may be found in this document are defined as follows:

Symbol	description
 DANGER	Alerts you to a high risk hazard that could, if not avoided.
 WARNING	Alerts you to a medium or low hazard that could, if not avoid, result in moderate or minor injury.
 CAUTION	Alerts you to a potentially hazard situation that could, if not avoid, result in damage, data loss, performance deterioration, or unanticipated results.
 TIP	Provide a tip that may help you solve a problem or save time.
 NOTE	Provides additional information to emphasize or supplement important points in the main text.

Special Notices

When using video surveillance products, comply with applicable statutory and regulatory requirement to enable and maintain legal surveillance device. It is illegal for company or person to install surveillance devices in an office to monitor employees outside scope of local law, or use surveillance devices to invade other people's privacy with illegal purposes.

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1 Preface

1.1 Important note

Thank you for choosing our Network Video Recorder (NVR). Please read this user manual carefully before using NVR.

Network Video Recorder (NVR) is a complicated system equipment. For avoid any fault caused by installation, debugging, operation and environment causes, please read below important note:

- Read this manual carefully before installation.
- In view of the different brands and models of hard disk in the current market, we recommend using SEAGATE and WESTERN Digital with high stability and high performance-price ratio.
- Never open the device cover and disassemble the device by nonprofessional person, otherwise may cause damaging and electric shocking.
- Video data lost caused by installation, configuration, improper operations, and hard disk error is born by the buyer.

1.2 About this manual

Before you use this manual, please read below declarations carefully:

- This manual is intended for NVR user.
- This manual content is suitable for NVR.
- This manual gives example to explain NVR operation details and performance index.
- Before using NVR, please read this manual carefully and follow the steps to install and use.
- For any questions during using the NVR, contact service center. The device may be upgraded without prior notice.

1.3 Check the installation environment

Installation environment

Before installing the device, checking the environment according to the

Table 1-1 Installation environment check items

Check item	standard
Moisture-resistant	The relative environment humidity must be in the range from 5% to 95%. If the humidity is higher than 95%, a dehumidifier must be installed, such as an air conditioner with the dehumidification function or a dedicated. Dehumidifier. In addition, water seepage, water dropping, and dew forming and not allowed.
Dustproof	If the office block is near the source of dust, such as the colliery, country install for the offices, and anti-burglary and fireproofing doors must be installed for the equipment room.
Lightproof	The device must be installed in the environment that is not shined by a strong light, delaying the aging of the device enclosure.

Installation notice

During the installation, please notice:

- NVR power input voltage is DC12V ($\pm 5\%$). The supply voltage must meet the input voltage, can't be higher or lower.
- NVR installation should be kept horizontal.
- NVR installation should avoid direct sunlight, and keep away from heat and high temperature environment.
- Make sure connects NVR with other equipment's normally.
- Install the Hard Disk when use NVR first time.
- NVR can automatically identify the hard drive capacity, support current market mainly models. But for NVR work stable we advise to use good brand hard disk.

Others

- Please use a soft and dry cloth to clean NVR, do not use chemical solvents.
- Don't put other things on NVR.
- NVR is standard of electromagnetic radiation, no harm to human body.

2 Specification

System	
CPU	SOC (System-on-chip)
Operating system	Embedded Linux 2.6
Features	<p>Embedded CMS system, fully functional friendly interface, easy to use; Original "quick configuration" feature that enables NVR configuration and management operations easy to get started.</p> <p>Original "camera private network" network enables Plug-and-play camera access auto detection and schedule setup for fast rapid use.</p> <p>Real-time fault alarm mechanism to timely reporting of hard disks, networks, fault information, such as camera disconnection; Embedded WebServer using Flash technology to support common browsers real-time monitoring and playback.</p>
Video	
Record Info	<p>D1: average bit-rate 1.5Mbps; Up to 16Channel</p> <p>720p: average bit-rate 3Mbps; Up to 8Channel</p> <p>1080p: average bitrate 6Mbps. Up to 4Channel</p> <p>Using 2x4T, 4-way 1080p or 8-channel 720p or 16-channel D1 can record 30days.</p>
Ability to decode	<p>H.264 (ISO / IEC 14496-10) high profile 4.2</p> <p>Can decode max of 1080p video streaming</p>
Real-time video	<p>Single screen: 1x1080p/720p/D1 with tour</p> <p>Quad display of 1080p / 720p / D1 resolutions</p> <p>Split screen 1/4//6/8/9/16 for D1 resolutions</p>
Output	DVI-I interface to transition through the first converted to VGA or HDMI output. Supplied with DVI to VGA converter.

Storage	
HDD	Two external-swappable hard disk , maximum 2x4TB hard drive supported
Audio	
In / Out	3.5mm linear audio output / MIC input supports from rear of device.
Audio formats	G711_A, G711_U
Network	
Transmission control	Embedded network bandwidth adaptive flow control technology.
Web	Webserver supported with Flash technology for and popular browsers in real-time monitoring and video playback, and system configuration.
Network protocol	RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS Client, RTMP for Flash Video
Characteristic	
Temperature	<p>Ambient temperature: -0 ° C -50 ° C, using industrial grade microprocessor, intelligent heating and cooling</p> <p>Humidity: 00% to 90%</p>
Power consumption	Low-power design, motherboard max power consumption 8W; with 2 3T hard disk increases 40W power consumption.
Power input	DC 12V±5% 5A, Supplied external adaptor 50/60Hz
Thermal	The main chip heat sink, plus intelligent temperature controlled fans.
Size	Chassis: 220mm x 150mm x 100mm (L x W x H)
Weight	5Kg / 1.1lb No HDD installed.
USB	3 x USB2.0 interface, respectively as a backup and USB mouse.

3 NVR Networking solutions

This the NVR has two Ethernet ports LAN1 and LAN2. Supports the private network of the cameras, and 2nd one for WAN local remote connections. LAN2 is used for network devices for automatic detection within the NVR software.

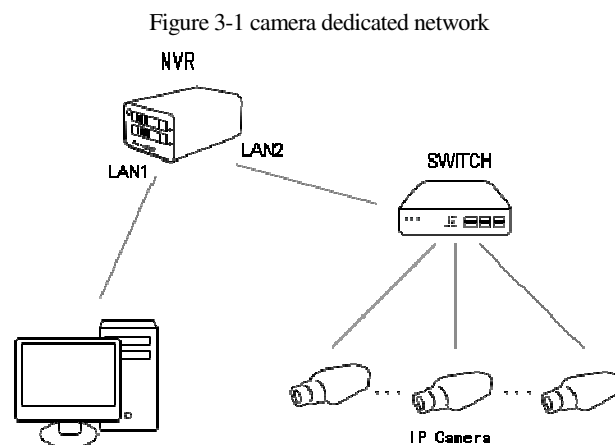
Option One: Private Network Setup

Camcorder network is a network exists only network cameras and NVR, there is no other network equipment, and this network is dedicated to the NVR and network cameras, audio and video transmission. Dedicated camera network must be connected with the NVR LAN2, and ensure that the LAN2 camera network functions are enabled (factory default enabled detailed configuration, see "Network Video Recorder User Manual quick configuration through LAN1 access NVR).

LAN2 Camera dedicated network function is enabled, NVR functions as:

- Enable DHCP service automatically assigns IP addresses to network cameras (network cameras enable DHCP function).
- Automatic network search network camera.
- Search to automatically add network cameras, and enable 24 * 7 hours of video.

The camera dedicated network topology shown in Figure 3-1

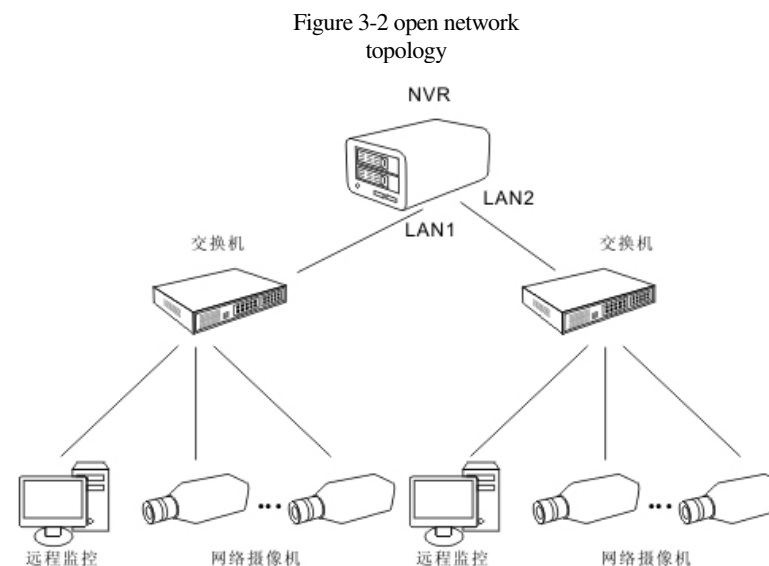


Option II: Open network.

The open network refers to the network in addition to the network cameras and NVR, there can be other network devices, network topology can be free to organize, just need to ensure communication between the NVR and network camera is smooth. In the use of the network, LAN2 needs to turn off the camera dedicated network.

Open network, the need to manually search for and add network cameras, see detailed operation quickly configure.

Open network topology shown in Figure 3-2



4 Installation

Hard disk recommended.

Given the current market of different brands, the uneven quality of the different models of hard, recommended to use Seagate or Western Digital brands which are designed for security/server applications offering 24x7 reliable operation.

Days recorded.

Table 4-1 video storage time

HDD capacity	Video stream	Cameras	Days recorded
2x2TB	D1 2Mbps	12	15
2x2TB	720p 4Mbps	6	15
2x2TB	1080p 6Mbps	4	15

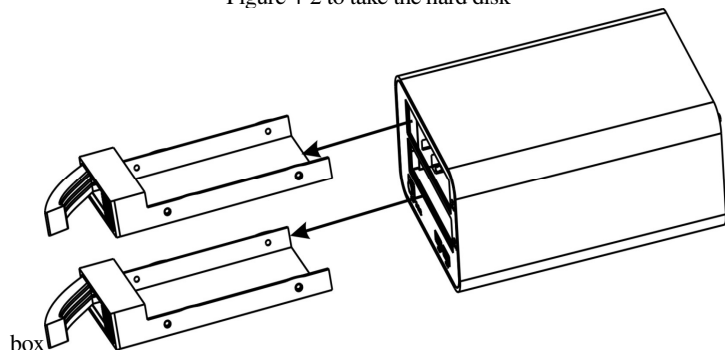
Installation.

The hard specific installation steps are as follows:

- 1) Step 1 Remove the hard disk box, shown in Figure 4-2 specific operation.

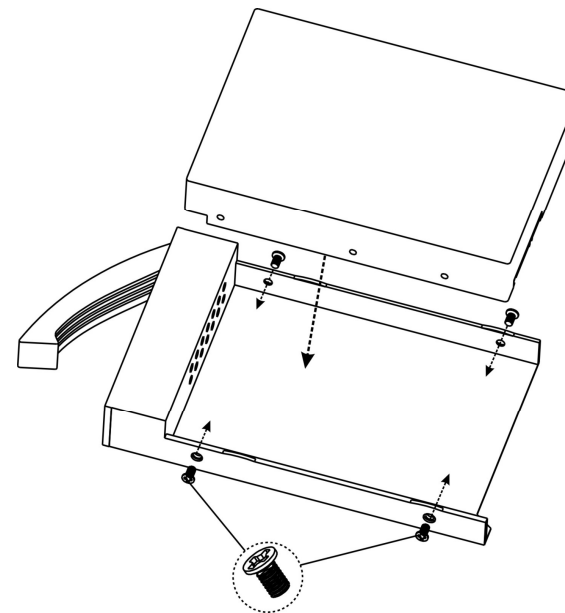
Step 1

Figure 4-2 to take the hard disk



- 2) Step 2 fixed hard disk as shown in Figure 4-3, using supplied screws.

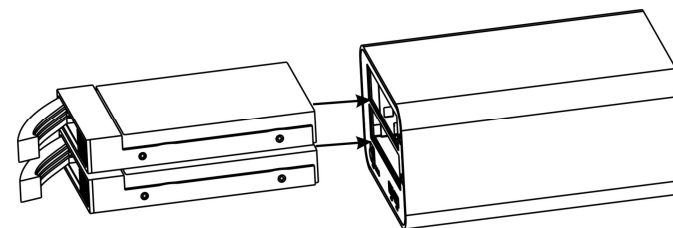
Figure 4-3 fixed hard



- 3) Step 3 Insert the hard disk box, shown in Figure 4-4 specific operation.

Step 2

Figure 4-4 insert hard



4.2 Front panel description

Figure 4-5 shows the front panel of the Network Video recorders. Table 4-1 shows the description of front panel.

Figure 4-5 Front panel

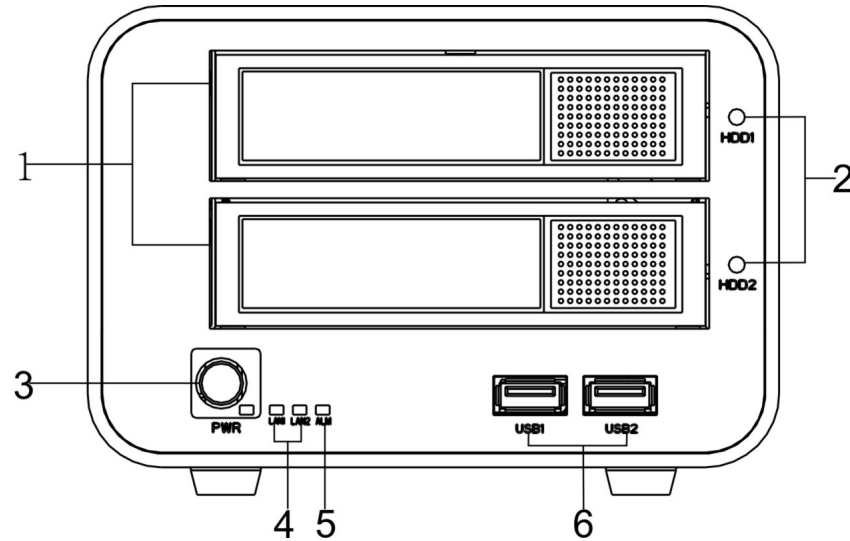


Table 4-1 Front panel description

No.	Name	Description
1	HDD Enclosure	For fixed hard
2	HDD LED	Hard normal solid red status.
3	The key to open / power indicator	Open, close, NVR, NVR is turned on the power light is solid red power light flashes red NVR Close.
4	Network indicator	Flashing green network connection is normal.
5	Alarm indicator	Reserved for future use.
6	USB interface	External mouse, keyboard, mobile hard disk.

4.3 Rear panel description

Figure 4-6 shows the rear panel of the Network Video recorders. Table 4-2 shows the interface of rear panel.

Figure 4-6 Rear panel

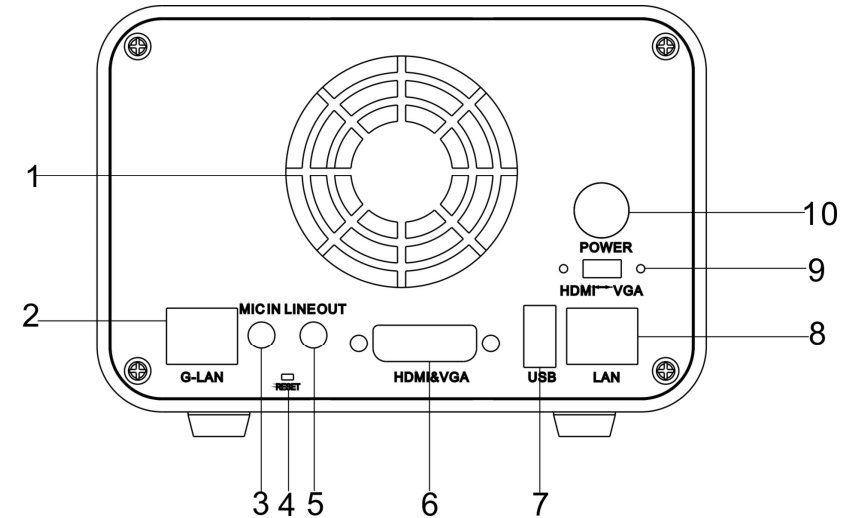


Table 4-2 Rear panel description

No.	Name	Description
1	Cooling fan	Start automatically when the temperature is too high.
2	Device Network Port	RJ45 1000Mbps network interface. (Gigabit)
3	Mic In.	Future update for Audio input.
4	Reset	Factory reset, hold for 5 Seconds when powered on,
5	Audio output	Headphones, stereo audio device.
6	DVI Output	Video output interface, VGA or HDMI output. VGA uses supplied DVI – VGA converter interface.
7	RST button	Restores the factory default settings. 5 second holds.
8	Network Interface	RJ45 100Mbps network interface. (WAN Connection)
9	Monitor Select	Let signal for VGA or HDMI be selectable
10	Power Input	DV12V,5A power input (Supplied)

4.4 First boot

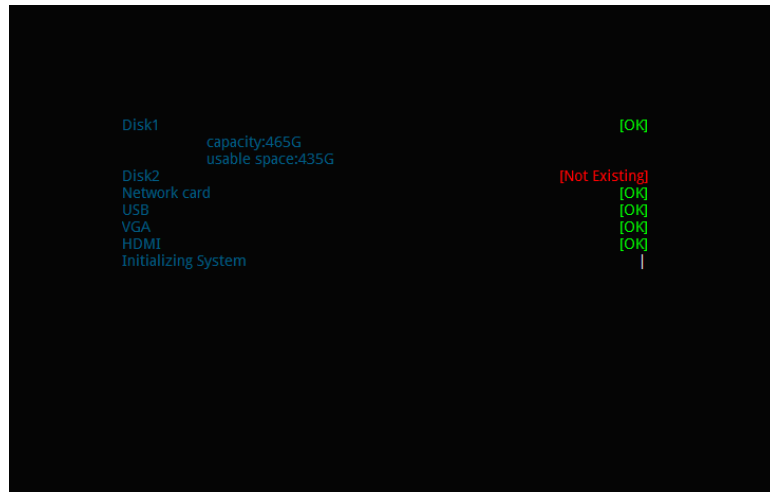
CAUTION

- Make sure that the right of access to power NVR.
- Ensure correct display HDMI or VGA interface connection is set from switch

If the front panel of the power indicator lamp does not flash please plug in the power cable .Enable the power switch, NVR start running. If the front panel power indicator lamp flashing Red light, please put the switch at front panel to start device.

After the device starts, the power light is solid red device starts after the self-test, and the test results are displayed on the screen. Show in Figure 4-7. Entire boot process takes about two minutes.

Figure 4-7 Device power on



When an exception occurs when the device self-test, this interface will stay in the lower right of the screen, you can choose to continue or shutdown. If you choose to continue, the device will continue to start, until the device login screen is shown.

NOTE

NVR hard drive has rigorous testing, if fails, the reasons may include the following:

- Unformatted new hard disk. Go to quickly configure the hard disk is formatted.
- Formatted hard drive, the NVR supported file systems do not match.
- Hard disk is damaged.

4.5 Shutdown

If the equipment is not load, long press the PWR button on the front panel for more than three seconds, the device will shut down, solid red becomes red flashing power indicator panel after a successfully shut down.

CAUTION


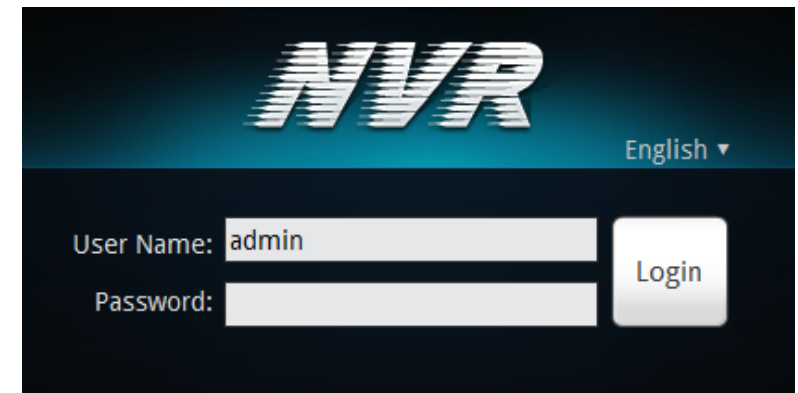
- Shutdown process, the system prompts are off, do not cut off the power.
 - Equipment running directly through the rear panel power off switch, cut off the power or unplug the power cord should be avoided.
 - In some circumstances, the power supply is not normal, will lead to the NVR not to work properly, serious damage can occur to the NVR. In this environment, it is recommended to use regulated power supply, or a backup AC source.
- If the device is logged into the main interface, you can click the top right  Button or long press the PWR button on the front panel for more than three seconds will bring up the shutdown interface, shown in Figure 4-8 Interface.

Figure 4-8 Shutdown interface



4.6 Displayer resolution adjustment

NVR support resolutions with VGA 1024*768, VGA 1280*1024, VGA1600*1200, HDMI720P, HDMI1080P, you can select the proper resolution according your displayer.

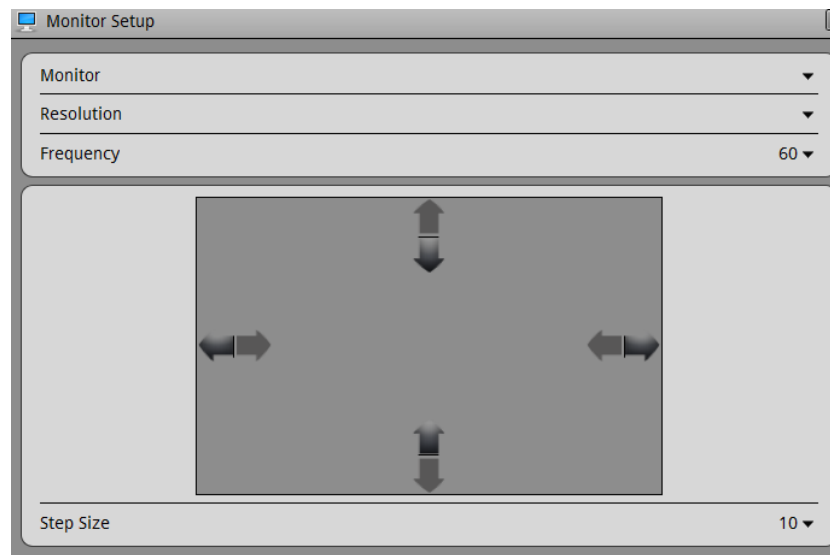
NOTE

For display using VGA set to 1024*768 or VGA 1280*1024. When using HDMI input we advise to use HDMI 1080P.

Adjustment Steps:

Step 3 Click Change on login interface and find the adjustment interface shown in Figure 4-9.

Figure 4-9 Adjust displayer




Step 4 Choose the type of resolution in the resolution of the drop-down box.

Device will automatically switch to the selected resolution and show the dialog for Yes or Cancel.


- If no operate in 10 seconds, displayer will back to previous resolution.
- If select Yes then will switch to the selected resolution.
- If select **cancel** display will not save the configuration and back to previous resolution.

Step 5 Adjust display.

NOTE

If displayer couldn't show the full screen (at the corners can't see ) then we need to adjust the displayer (we advise to auto adjust first)

1. Click Adjustment button at lower right corner.
2. In the step of the drop-down box to choose the adjustment step.
Step: The moving distance when adjust screen each times , the greater number the more moving distance, you can select the larger step sizes to adjust sketchy, and then select the smaller step tuning.
3. Use UP, DOWN, LEFT, RIGHT button to adjust the screen.

Step 6 Click the configuration interface  to close.

Exist displayer interface

[Back to Login interface](#)

4.7 Add Network cameras

This NVR allow to connect maximum 16 pcs network cameras. Recording baud rate totally is 24Mbps and live video total baud rate is 12bps.

CAUTION

- NVR maximum support to connect 16 pcs D1 resolution with average baud rate is 2Mbps network camera, If total baud rate more than 24Mbps it may cause NVR to lose video and not run stable.
- When Add HD IP camera, it can be added by reduction the number of channel or the camera baud rate.
- Detail Specifications please refer to 2 Specifications

Add Network camera

Option One: Private Network Setup

Method 1: NVR will discover the network camera automatically.

NOTE

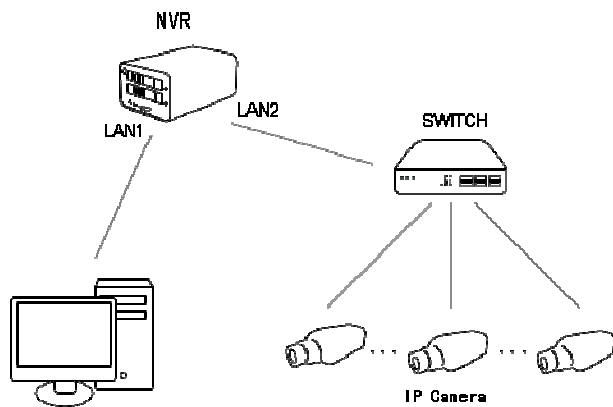
Camcorder network is a network exists only network cameras and NVR, there is no other network equipment, and this network is dedicated to the NVR and network cameras, audio and video transmission. Dedicated camera network must be connected with the NVR LAN2, and ensure that the LAN2 camera network functions are enabled (factory default enabled detailed configuration, see "Network Video Recorder User Manual quick configuration through LAN1 access NVR).

LAN2 Camera dedicated network function is enabled, NVR functions as:

- Enable DHCP service automatically assigns IP addresses to network cameras (network cameras enable DHCP function).
- Automatic network search network camera.
- Search to automatically add network cameras, and enable 24 * 7 hours of video
- Private Network Setup is default open.

The camera dedicated network topology shown in Figure 4-10.

Figure 4-10 Camera dedicated network



Method 2: Add the camera manually.



NOTE

Discover the network camera we can discover by broad cast, IP segment search, and pointed IP search. Network camera have to be pointed IP first and stay with a same sub network segment.

4.8 Login

Login to the equipment using the following steps:

Step 1 In the login screen shown in Figure 4-11, enter a user name, password.

Figure 4-11 Login screen



Step 2 Click Login.

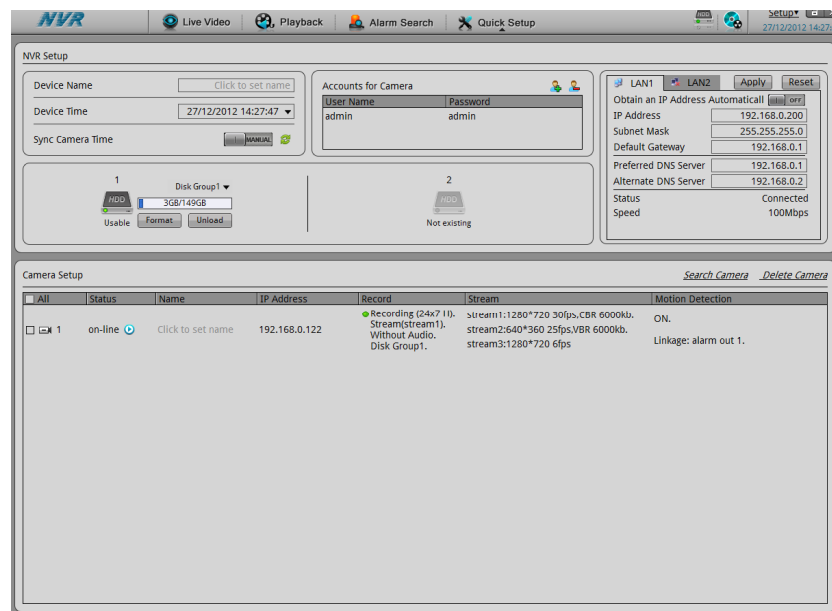
Enter the main interface.

5 Quick configuration

Quickly configure some common functions together to facilitate the configuration management of the NVR. It provides:

The NVR network configuration, disk management, date and time configuration, the search network camera, video configuration; fast configuration of the features of the camera network configuration stream configuration, motion detection configuration. Enter the rapid configuration interface, as shown in Figure 4-12

Figure 4-12 Fast configuration interface




The rapid configuration interface description.

Area 1: NVR Basic information and time synchronization functions.

- NVR Basic information configuration.

The NVR can set the name, date and time.

- Synchronization time of the network cameras. You can select the manual mode or automatic mode.

When the manual mode is selected, click  Button for time synchronization. Select automatic synchronization mode, time synchronization automatically by NVR, this means all cameras will have internal times set to match NVR time.

Area 2: NVR network configuration.

- NVR default factory IP address: network 1:192.168.0.120, network 2: 192.168.1.120.
- The basic network configuration can configure the IP address, subnet mask, default gateway, DNS address and other parameters. Real-time display of the network connection status and speed. 8.1.5 Network specific parameters, see "Network Video Recorder User Manual.
- Network support the cameras dedicated network function, factory default enables this feature.

NOTE

The Camera network is the only network cameras and NVR, there is no other network equipment network.

Private network enabled camera, see Chapter 2 for detailed explanation of the operation.

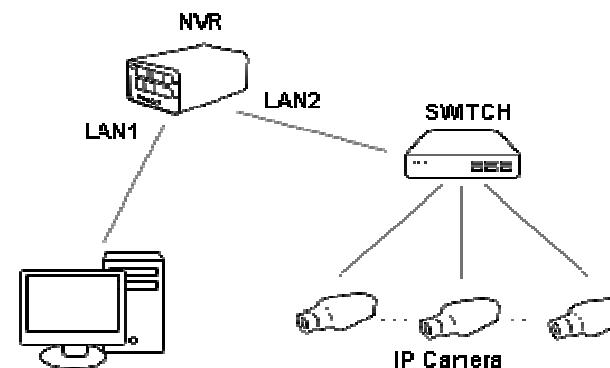
Camera private network means in such a network there exist Network camera and NVR only without any other network devices.

When the private network enabled, then NVR will do following operations:

- When DHCP function enabled, the IP address will be arranged to network cameras automatically.
- Auto discover the network cameras.
- Auto discovered the network cameras and enable 7*24H recording schedule.

When it's using the camera private network, then the topological graph like Figure 2-2.

Figure 4-13 Camera dedicated network topology



CAUTION

- Format the hard disk will cause video loss, please use this feature with caution.
- Power unit off to remove the hard drive, use the software to control this process as below otherwise it may cause damage to the hard disk recordings.

Hard disk management for hard disk management NVR:

- Format hard disk. Click the Format button, pop-up prompts, choose to format. Capacity. Note: 2T formatted hard disk takes about 10 minutes to complete.
- Load or unload HDD. Please uninstall the need to pull out the hard disk, hard disk.
- Modify hard disk group.
- (Normal, abnormal, unformatted drive or does not exist) to view the status of the disk.
- View the disk space and the total space.

Area 4: Select Network Camera

When enabled private network cameras, NVR will automatically search for the network cameras.

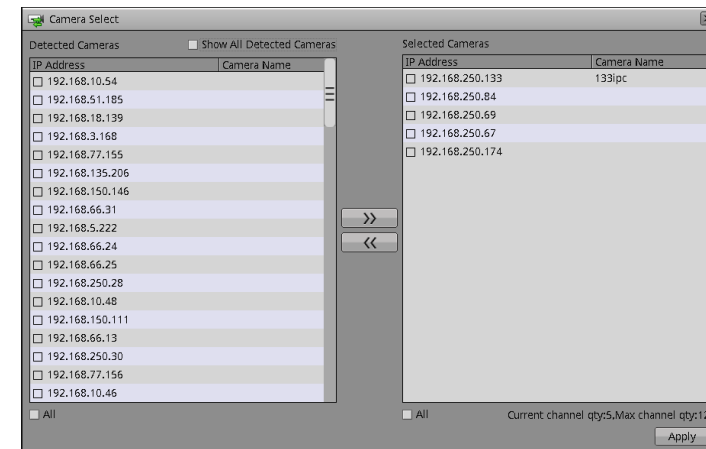
- When the number of network cameras is not more than 16 units, NVR automatically add the management list.
- When the number of network cameras of more than 16 units, NVR automatically randomly add 16 units to manage, and prompted a warning, as shown in Figure 4-14.

Figure 4-14 Device Discovery Tips

Detect 92 cameras at latest , *Ignore* or *Select*

You must on the NVR management of equipment selection, click ignore NVR management network camera, click, pop-up camera selection screen shown in Figure 4-15。

Figure 4-15 Device Discovery Tips

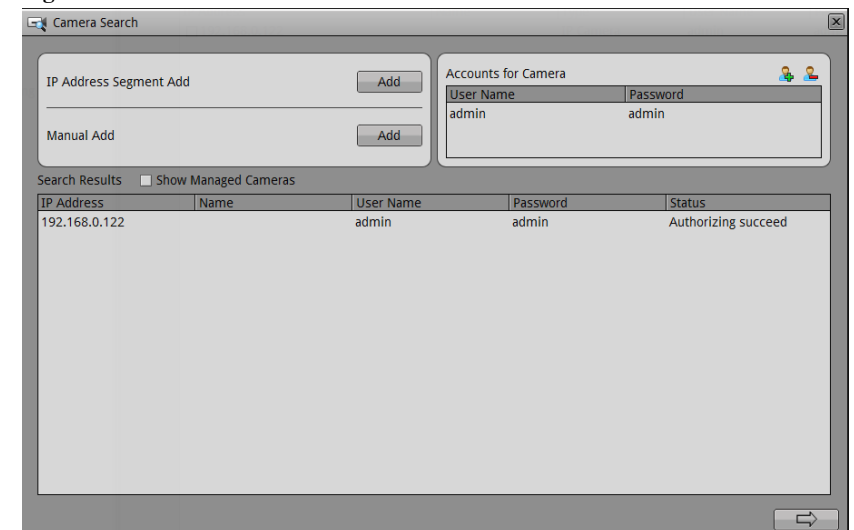



Click the Apply button to complete the network camera selection.


Area 5: Search cameras, delete cameras.

Private network using the camera function, you need to manually search for network cameras, network cameras click Search pop-up the camera search interface shown in Figure 4-16 shows the.

Figure 4-16 Camera search interface



Click the button , Pop-up camera selection screen shown in Figure 4-15, the interface device selection, choose the camera finished, click Apply determine the choice.



Need to remove the management camera in the camera list, click the check box ☒  1, Select the camera, the camera button and then click Delete to remove.

Area 6: Manage cameras certification account.

CAUTION

Can only certification through the camera to normal use, be sure to add the correct camera certification before adding the camera, the camera certification account list of account numbers and passwords, this is not same as NVR account users.

Certification account used to log on to the network cameras, for search network camera login authentication. Only certified network cameras can be added to NVR system.

- Systems have a default account admin password admin; you can click  Icon to add a network camera certification account.
- Click  to select account to be deleted from list.

Area 7: Configure network camera.

You can view the status of the network camera, set the name of the network cameras, IP address, video strategy, stream parameters, and motion detection parameters.


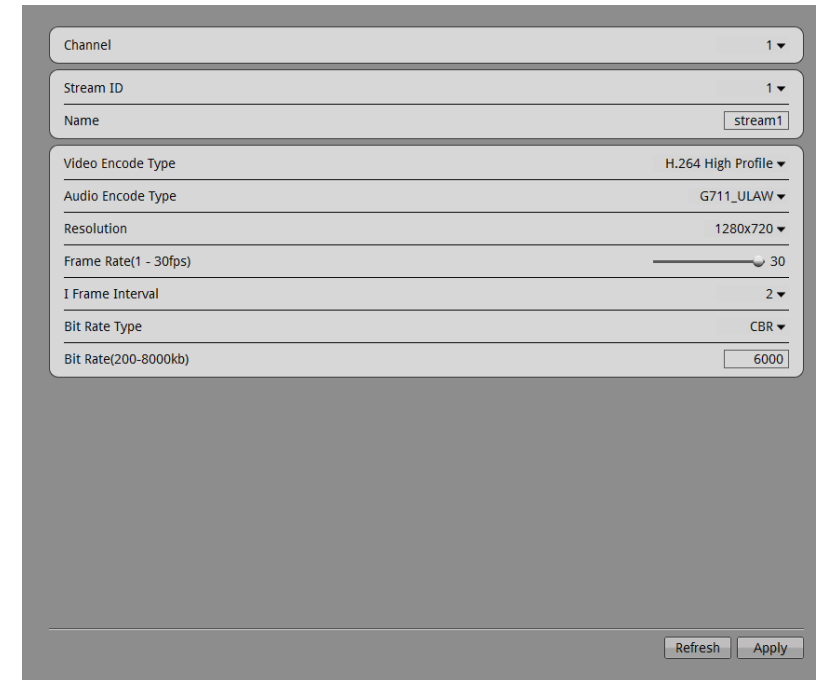
- View the status of network cameras, status: online, not online, account errors.
- Online equipment, you can click  Real-time video preview.
- Modify the name of the network camera.
Enter the desired name of the device corresponds to the name of the bar, you can modify the name of the camera.
 - Modify the IP address of Network Camera.
- Click to modify the IP address, network cameras IP Settings dialog box pops up
 - Set the network camera IP specific operation methods and procedures, see the "Network Video Recorder User Manual in 8.1.5 Network.
- Set video strategy.
- Video strategy information, click on the desired modifications configuration dialog box pop-up video strategy;
 - Specific methods of operation and the steps set video strategy see 8.1.7 Video Network Video Recorder User Manual.
- Set the device stream.
- Click stream information required to modify the pop-up the stream configuration dialog box shown in Figure 4-17 will show.

Figure 4-17 stream quick configurations



The image shows a 'Stream quick configurations' dialog box with the following fields and values:

- Channel: 1
- Stream ID: 1
- Name: stream1
- Video Encode Type: H.264 High Profile
- Audio Encode Type: G711_ULAW
- Resolution: 1280x720
- Frame Rate(1 - 30fps): 30
- I Frame Interval: 2
- Bit Rate Type: CBR
- Bit Rate(200-8000kb): 6000

At the bottom right, there are 'Refresh' and 'Apply' buttons.

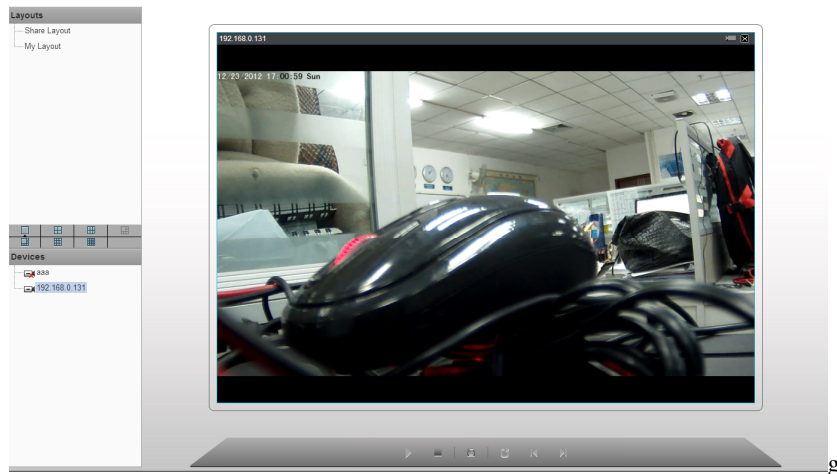
- Applied to all of the same device switch stream is set to open, click the Apply button will automatically set the current parameter to all devices with the same resolution parameters.
- Set to detect alarm.
- Click the desired modification motion detection, motion detection alarm dialog pops up.
 - If the motion detection alarm, you must set the arming time and detection area.

6 Live video

Input the username and password, click login.

Enter the live video interface, which looks like Figure 4-18.

Figure 4-18 Live video interface



In the live video interface, you can select the camera from the left list to the live video channel to do the below operates:

- Live video
- Alarm log tracking
- Monitor the recording status
- PTZ Control
- Audio monitor
- Full screen automatically
- Video mark
- Sensor configuration

Decoding ability

This system decoding ability is 6 channels D1 or 1 channel 720p or 1 channel 1080p. If it is over loaded, then it will print out “Decoding ability not enough” on the screen showing area.

Intelligent adaptive mechanism of stream frame rates











This system provides the intelligent adaptive mechanism of stream frame rates.





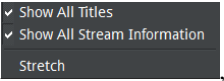

When you are selecting the camera to watch the live video, the system will select the suitable stream according to system’s own decoding ability and live video windows. Always make the system working with best performance.

If you need to change the streams manually, you need right click the screen to call the menu, then we will be able to see all the available streams in current camera. And after we switched the streams, by the bottom line of the live video window we will see the stream information.




Live video interface introduction as Figure 4-18.

Table 4-3 Live video interface introduction

Items	Name	Content
1	Top menu	<p>Click Live video, Recording playback, Alarm search and Quick setup to enter the responding interface.</p> <p>Click  icon to check the HDD information.</p> <p>Click  icon to enter the recording backup interface.</p> <p>Click  icon to lock the interface.</p>
2	Channel Layout	<p>When you are watching the live video, we can select the 1 screen, you can select 1 display, four display, six display layout and other layout mode. After we selected the layout mode, we can move the camera from the left list to the layout screen, then click save button to save the layout. There exist two option “Shared layout” “May layout”, this system also support “Wheel guard” mode, we can configure the wheel guard mode in system management and live video layout.</p>
3	Camera List	<p>In the camera list it listed all the cameras in the system.  means normal,  means offline,  means unverified.(username or password is not correct)</p>
4	Alarm information	<p>In this area will display the alarm information include motion detection and I/O input alarm. This information area will only display recently latest 20 alarm information. Click  to clear the information.</p>
5	Bottom menu	<p>Click  ,  and  icon, we can try to hide or</p>

Items	Name	Content
		<p>display the layout list, alarm list and alarm information.</p> <p>: Play live video button.</p> <p>: Close live video button.</p> <p>: Mark tag button, you can mark the tag during the live video, it will helps to track the video fragment in recording playback.</p> <p>: Click this button will call  , we can select which one want to display according to the requirement.</p> <p>: PTZ menu button, click will call the PTZ control menu.</p>
6	Live video	<p>Display the live video, and configure the sensor settings. If you need to change the streams manually, we can right click the menu, it will list out all the streams which is available for current device. After we selected one of them, it will also display the stream information at the bottom side.</p>

Full screen automatically

Click  button, it will be available to choose whether enable the full screen function, also the time delay for full screen showing. When this function is enabled, if we didn't do any actions during the delay time period, then it will go to the full screen mode immediately. When it is in full screen mode, after you moved the mice to the bottom line it will give out the tool bar, click the icon  in tool bar we can exit the full screen mode. Then you click  can go to the full screen mode manually again.

PTZ control


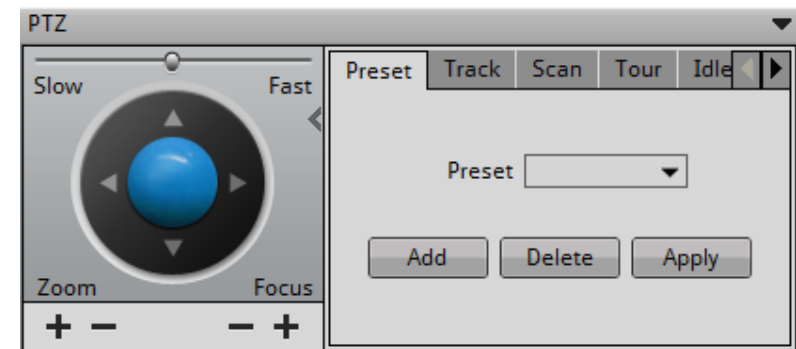

Click  button, call the PTZ control menu, as Figure 4-19 showing. In this interface you can adjust pan, zoom, preset, trajectory, scanning, infrared light, north, timer settings etc.


Figure 4-19 PTZ Control menu



NOTE

PTZ Control menu only can be cooperate with IPS Dome and Ext PTZ platform.

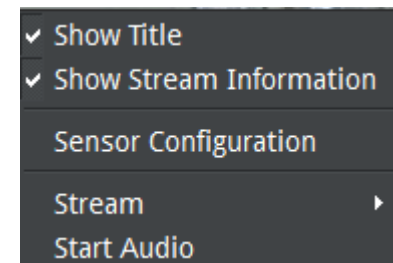
Click  button to close the PTZ configuration menu.

Click  button to exit the PTZ control menu.

Live video fast operation

Right lick mice to call Figure 4-20 interface, call the menu “Showing title, Showing stream info, Enable audio, Stream switch, Sensor configuration etc.”

Figure 4-20 Live video monitor menu

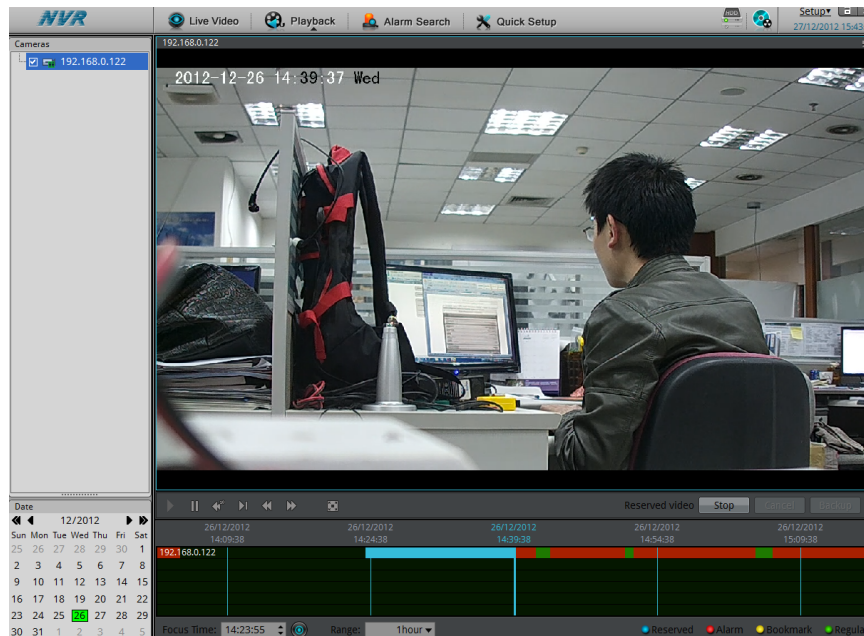


7 Playback

7.1 Recording playback



Recording playback will play back the video which is recorded in local HD. Like Figure 4-21 showing.

Figure 4-21 Local playback






Playback operations steps.

Step 3 Choose the camera which you want to playback.

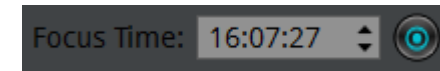
Click one from the list at left side, icon  means this camera has been selected, icon  means camera has not been selected.

Step 4 . Date selection.


You can select the date period at the calendar. Click icon  to switch month, click  to switch year.  Means selected date. When it is green marked means this day have recording files, otherwise there is none recording in that day.

Step 5 Recording show.

After selected the device and date, at the bottom area of the live video area it will display the recording status. The scale on the time axis showing the recording time period, blue marked means the current playback video time. The playback video will be displayed above the time axis, blue marked means retain video, red marked means alarm video, yellow means label video, green means normal video.



: You can input the time. After

clicked , the playback video will jump to the pointed time.



: After the time zone, you can select the time interval: 15 minutes, 30 minutes, 1 hour, 4 hours, 8 hours, 12 hours, 1 day.

When 1 hour is selected, then the time period between two blue tagging means 1 hour.

Step 6 Playing Playback



After selected the camera and date, you can start playing playback, click  button to start play.

Figure 4-22 Control tool bar



From left to right are: Play, Pause, rewind 10 seconds, single frame playing, rewind, fast forward and full screen button.

NOTE

During the playback, you can try to move the mice to control the playback processes, click  to switch to the full screen mode.

7.2 Recording backup

Step 1 Configure the backup path.



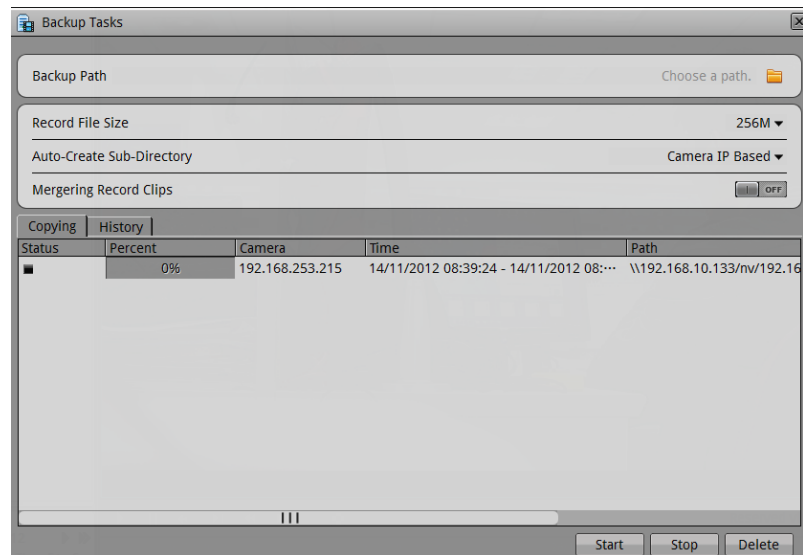
Click  button to call the backup interface, click  button to call the backup path configuration interface like Figure 4-23.

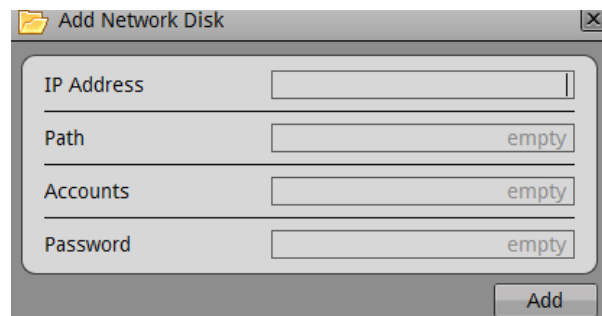
Figure 4-23 Backup path browser



In the backup path, it is displaying the current backup path, if it is none, then you need to select one, in the below list it is showing all the available storage path. This NVR support two kinds of the storage method: Network storage device (NAS) and USB storage device (U disk or Removable HDD).

- Network storage device
3. Double click the Add network disc, or right click the menu to call the Add network disc interface. Like Figure 4-24.

Figure 4-24 Add network disc



4. Input the IP address, path, account and password, click Add button.
5. Check the network disc status. The status list: OK, connect fail, unavailable. Only when status is OK it means the network disc can be used for backup normally..

6. Double click go into the network disc path list, select the backup path, click ok button save and exit.
- USB Storage device
1. Insert U disk or removable HDD to the USB interface.
 2. NVR will detect the USB storage device automatically, after detected successfully, it will showing USB storage device.
 3. Right click menu to select unmounts or formatting options on the U disk.
 4. Double click into the USB storage device path list, select the backup path, click OK button and exit.

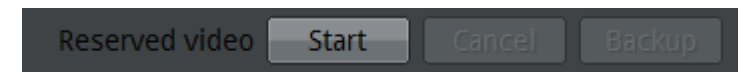
Step 2 Configure the backup file options.

- Backup file large size, we can define the maximum size of individual file.
- Create the subdirectories, can be specified create the directories based on the network cameras IP or ID.
- Whether to combine video clip, you can specify whether to make two discontinuous video merged into one file.

Step 3 Select backup recording

Method one: We can select the recording and backup during the playback processes. Recording backup control bar as Figure 4-25 showing:

Figure 4-25 Recording backup control bar








1. Click the Start button to start selecting the recording segment.
2. Select the recorded files, keep pressing mice left button move to left or right side to high light the files which you want to make the backup.
3. .Click Stop button to stop the selection. (You can also click cancel button to cancel the current selected video segment.)

Click backup to start the recorded files backup.

Method two: In alarm searching, when we are playing the playback alarm triggered video, we can click backup to make the backup files.

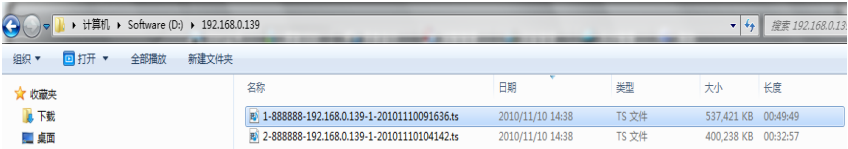
Step 4 View backup file progress

You can check the backup status in backup interface,  means backup is in processing,  means wait for backup,  means backup stopped,  means backup failed,  means backup finished.

Step 5 Backup file searching

Enter the backup directory folder, you can check all the backup files like Enter the backup path folder to check the backup files. Like Figure 4-26.

Figure 4-26 File search



8 Alarm searching

In alarm searching interface we can search the alarm recording.

Operation steps

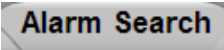

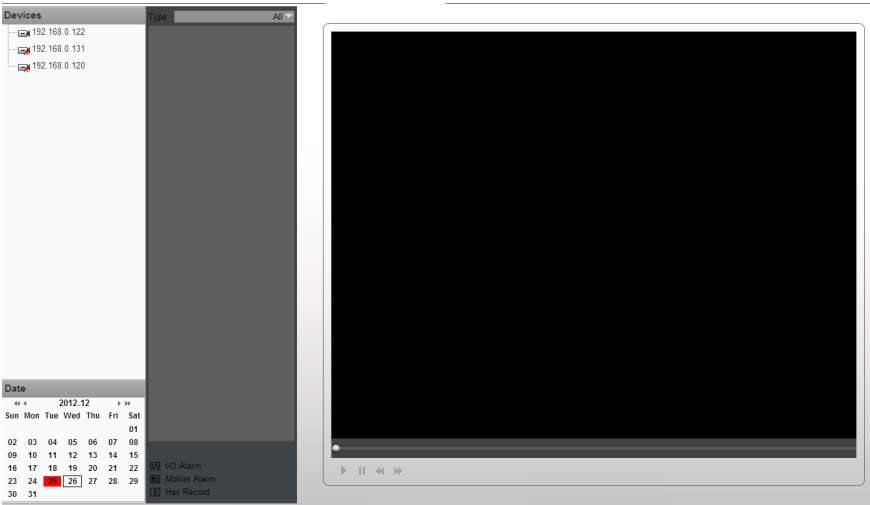



- Step 6 Click  button enter into the alarm management interface like Figure 4-27 showing.
- Step 7 You can select the camera which you want to search the alarm information from left list.
 Means this camera have alarm information.
- Step 8 We can select the alarm type at the Type drop-down menu.

Figure 4-27 Alarm searching interface.




- Step 9 Date selections.
You can choose the date period which you want to search in the calendar area.
Click  to switch the month, click  to switch month.  Means the date which has been selected. If it is red color then it means in that day it have the alarm trigger recording.
- Step 10 Recording show.

9 Setup

After we selected the device and date, we can try to play the alarm recording files below type area.

Step 11 Alarm triggers recording play.

Select the alarm trigger recording files, click  button to start playing.

Step 12 Alarm recording backup

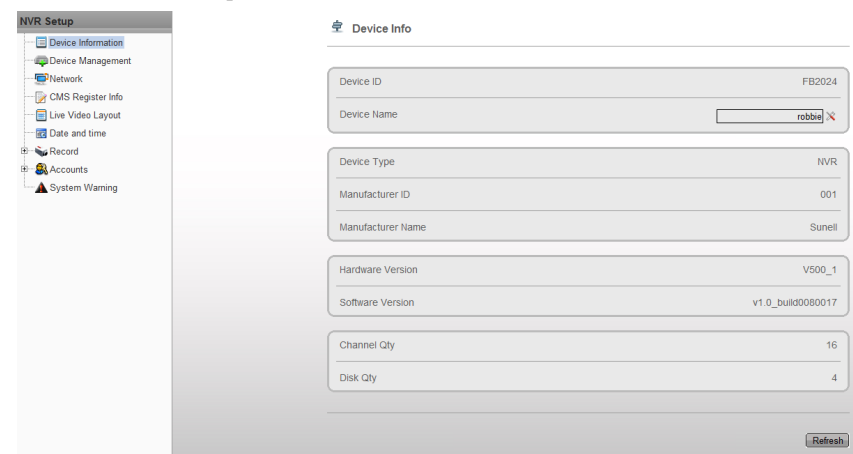
Select the recorded files and click backup button to make backup files.

Setup includes NVR setup and camera setup. NVR setup for NVR configure and camera setup for cameras configure.

9.1 NVR setup

Click **NVR setup** in upper right to enter the NVR configure interface show in Figure 4-28.

Figure 4-28 NVR setup



The screenshot displays the NVR Setup interface. On the left is a sidebar menu with the following items: Device Information (selected), Device Management, Network, CMS Register Info, Live Video Layout, Date and time, Record, Accounts, and System Warning. The main area is titled 'Device Info' and contains several configuration fields:

Device Info	
Device ID	FB2024
Device Name	robbei
Device Type	NVR
Manufacturer ID	001
Manufacturer Name	Sunell
Hardware Version	V500_1
Software Version	v1.0_build0080017
Channel Qty	16
Disk Qty	4

A 'Refresh' button is located at the bottom right of the configuration area.

9.1.1 Device information

When enter NVR setup interface, we can see the system information show in Figure 4-28 .

Device information includes:

- Device ID
- Device Name
- Manufacturer ID
- Manufacturer Name

- Hardware Version
- Channel Qty
- Disk Qty

NOTE

- Only Device Name can be edit, other parameters can't be edit.
- When device update the device info will auto update as well and will keep same step with the software version.

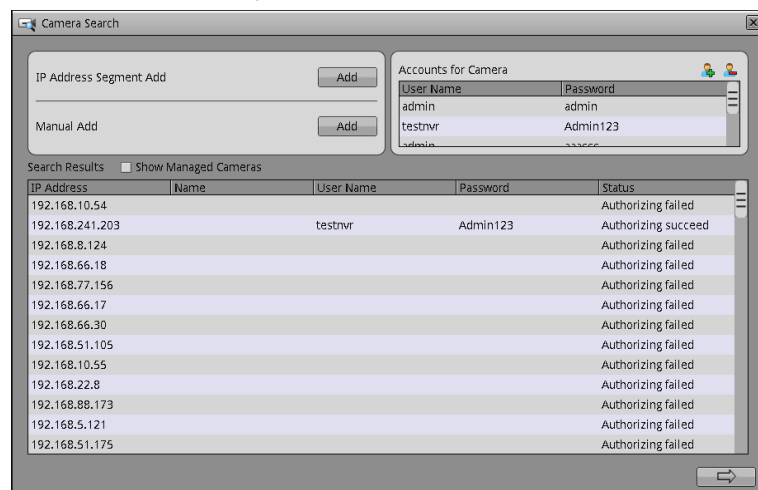
9.1.2 Device Management

User and search, add, delete cameras through device management.

Select NVR setup->Device Management,

Enter the camera management interface, like Figure 4-29 showing; it will list all the cameras which has been connected with NVR, and also some basic information of them.

Figure 4-29 Device Management interface



Search and add cameras.

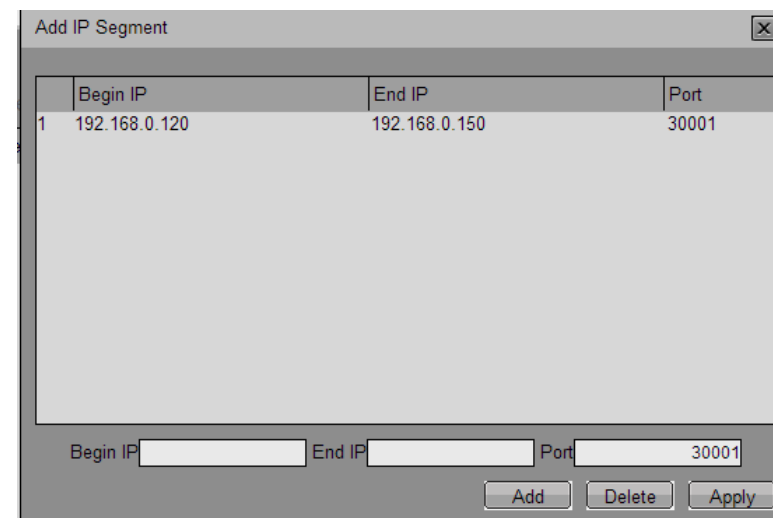
The steps of search and add cameras like below:

Step 13 Click the add button to call the camera searching interface like Figure 4-29 .

Step 14 Add the cameras according to the IP segment or something specific.

- Add IP address
4. Click Add button in IP address, to call the IP adding interface as Figure 4-30.

Figure 4-30 Add IP section.



5. Input the Begin IP address and End IP address and Port number.
 6. Click Apply to finish the operation.
 7. This system will search the IP cameras in such an IP segment automatically, and display the searching result below.
- Add manually

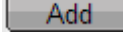
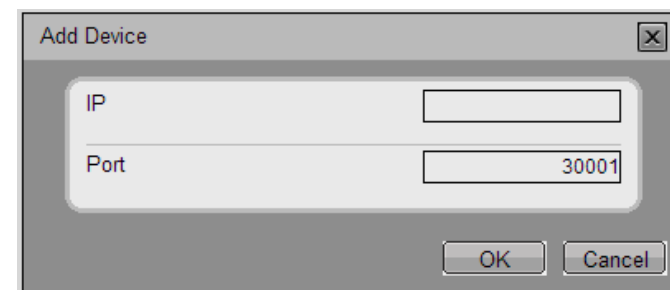
1. Click  button, to call the add cameras interface like Figure 4-31 showing.

Figure 4-31 Add cameras manually



2. Input the IP address and Port number.
3. Click OK button to finish the operation.
4. If such camera is available, then the adding result will display below.

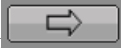
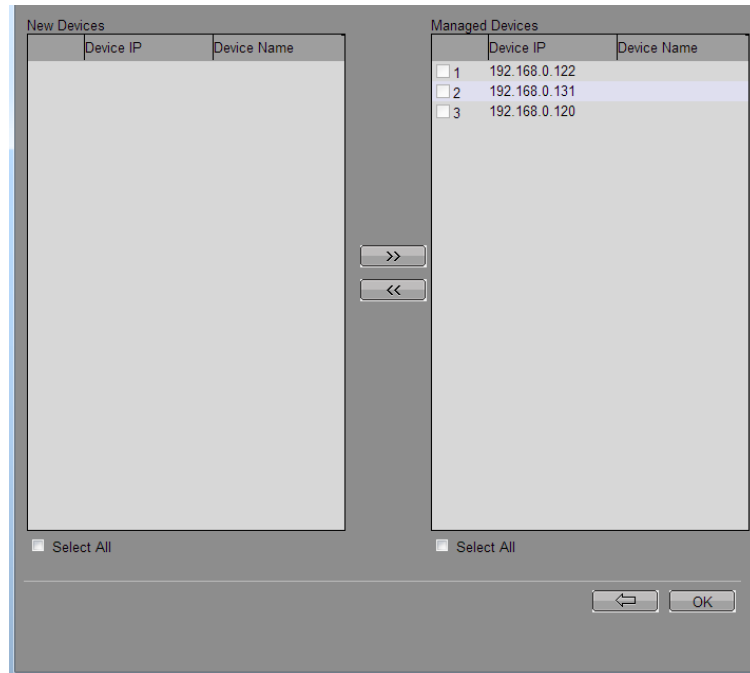


Step 15 Click  button to call the interface as Figure 4-32.

Figure 4-32 Add camera management



Step 16 Select the cameras which you want to add from the left part list click  to finish the operation. Click.

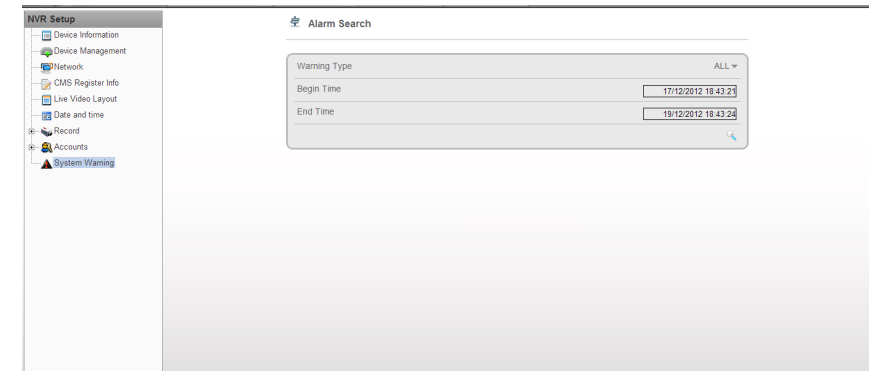
 To cancel the adding operation.
Click OK button to finish the operation.

9.1.3 System alarming

Select Setup>System warning> system warning

Enter the system warning like Figure 4-33 showing.


Figure 4-33 System warning information.



Warning information searching steps.

Step 1 Select the warning type (Disk Alarm, Record Alarm, All).

Step 2 Input searching Begin Time and End Time.

Step 3 Click searching button , then the searching result will be displayed below.

9.1.4 Network

You can check the Camera DHCP IP address, configure IP address, subnet mask, gateway address, First NDS, backup NDS.



CAUTION

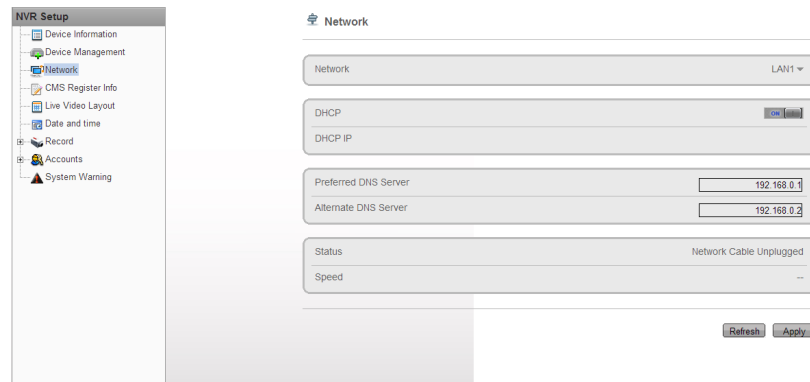
If set the camera in LAN network, please don't let any cameras' IP address conflict with other computers.

Operates steps

Step 1 choose configure > system configure > network


Enter the network configuration interface like Figure 4-34 showing.

Figure 4-34 Network interface



Step 2 Configure the network parameters, reference the Table 4-4.

Table 4-4 Network parameters

Items	Introduction	How to configure
Get IP address automatically	It will get the IP address from DHCP server automatically.	Switch DHCP to on by this button  .
IP Address	Camera IP address, it can configure the IP address depends on real situation.	Default IP is 192.168.0.120
Subnet mask	Configure the subnet mask	Default address is 255.255.255.0
Gateway	Input if needed	Default is 192.168.0.1
DNS	Configure the DNS server address	Default is 192.168.0.1

Step 3 Click to application

- Call the Apply successfully; click OK to finish the network parameters configuration.
- If pop up other windows, then please confirm the parameters are all correct and configure again.

9.1.5 Live video layout

You can configure the live video layout in order to call the live video quickly.

Live video layout can do below operations:

- Create new layout
- View current layout

- Edit current layout

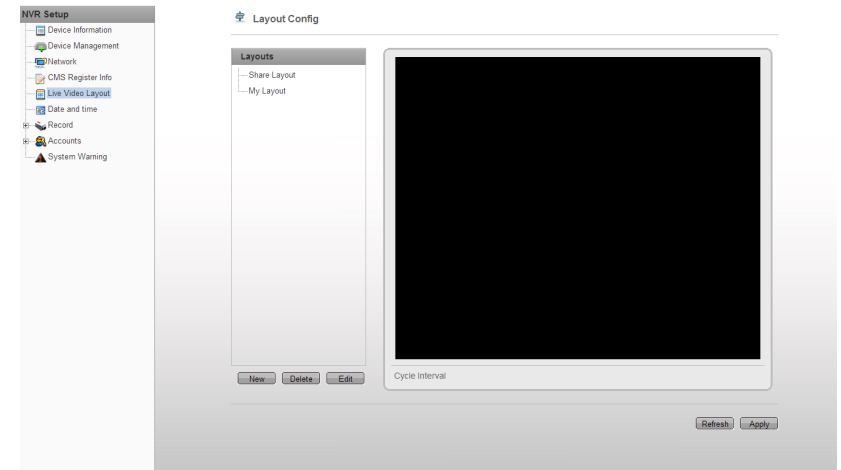
Create New layout

The steps to create new layout below:

Step 1 NVR Setup> Live Video Layout

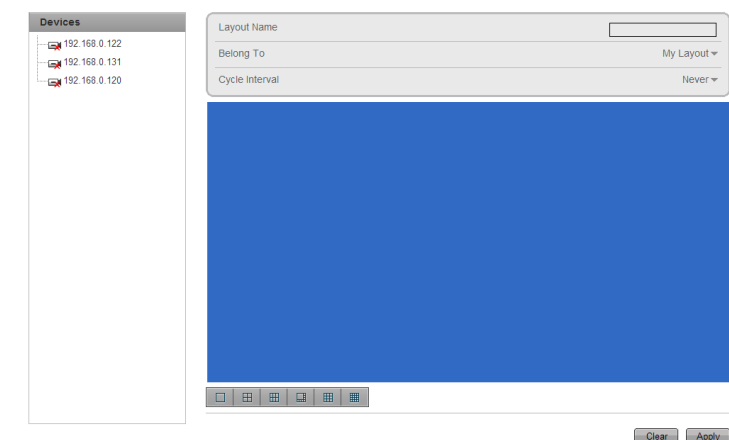
Enter the live video layout like Figure 4-35.

Figure 4-35 Live video layout



Step 2 Click Net to call the new layout like Figure 4-36.

Figure 4-36 New layout



- Step 3** Input the New layout name
- Step 4** Configure the New layout position, you can select the Shared layout or my layout.



NOTE

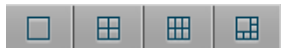
Shared layout means the layout for all the users.

May layout means the layout for current login user only.

Shared layout only can be created by authorized users.

- Step 5** Configure to enable the wheel guard or not. Wheel guard time interval could be set as 5s, 10s, 30s, and 60s.

- Step 6** Choose the screen split settings.



From left to right are single frame, 4 frames, 6 frames and 1+5 frames. You can choose one of them.

- Step 7** Use the Mic left click to select the camera from the list and move to the live video layout.

- Step 8** Click “Apply” to finish and save the configuration. If it call the window to warn you the name can’t be none, then please input the layout name.

-

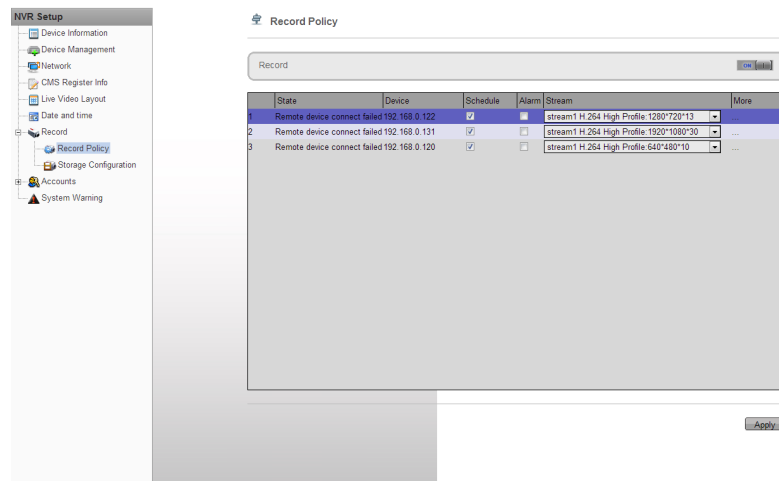
9.1.6 Recording

You can configure the Recording by Schedule, Alarm recording, recording quality, and Recording Policy.

- Step 1** Choose Setup> Record> Record Policy.

Enter the Record Policy like Figure 4-37.

Figure 4-37 Record Policy



- Step 2** Enable the record ☒ (Enable as Default)

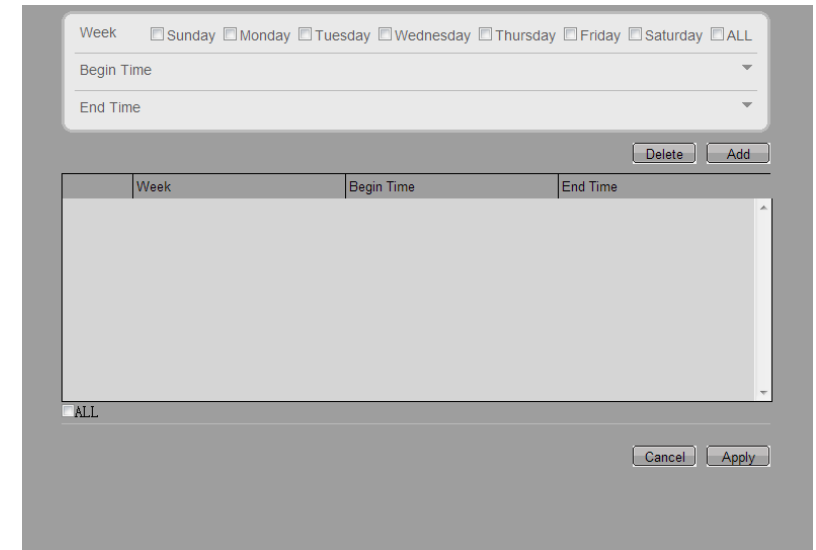
- Step 3** Please select “√” on the cameras which you want to record, and also select the corresponding streams parameters.

- Step 4** Click to More

Call the record policy configuration interface like Figure 4-38.

Figure 8-11 Record Policy Configuration

Figure 4-38 Schedule record configuration interface.



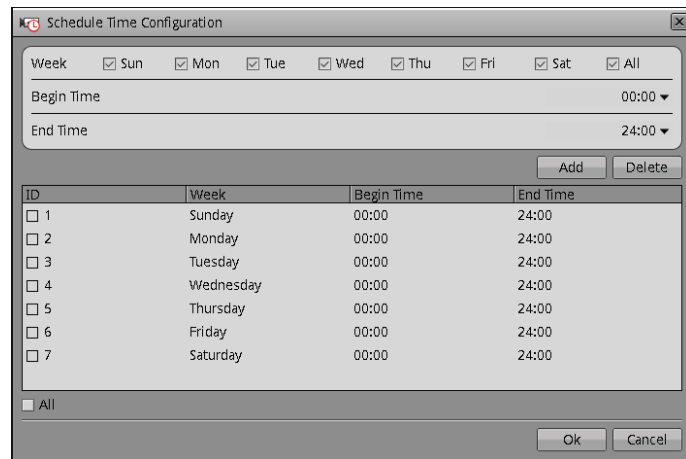
- Step 5** Configure Record Policy

Configure 7*24H and Record by Schedule two policies.

If select record by schedule, we need to configure the schedule plan. Steps as below

1. Click , enter into the schedule record configure interface, like Figure 4-39.
2. Configure the schedule for recording.
3. Click Apply to save.

Figure 4-39 Schedule record configuration



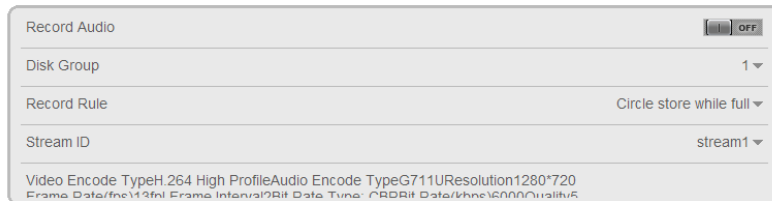
The dialog box titled "Schedule Time Configuration" contains a "Week" section with checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, Sat, and All. Below this are "Begin Time" and "End Time" dropdown menus, both set to 00:00 and 24:00 respectively. There are "Add" and "Delete" buttons. A table lists 7 entries with columns for ID, Week, Begin Time, and End Time. All entries have a Begin Time of 00:00 and an End Time of 24:00. At the bottom are "Ok" and "Cancel" buttons.

ID	Week	Begin Time	End Time
<input type="checkbox"/> 1	Sunday	00:00	24:00
<input type="checkbox"/> 2	Monday	00:00	24:00
<input type="checkbox"/> 3	Tuesday	00:00	24:00
<input type="checkbox"/> 4	Wednesday	00:00	24:00
<input type="checkbox"/> 5	Thursday	00:00	24:00
<input type="checkbox"/> 6	Friday	00:00	24:00
<input type="checkbox"/> 7	Saturday	00:00	24:00

Step 6 Whether to enable the alarm record

- If not want to enable the alarm record, then just set the button to OFF.
- If want to enable the alarm record, then set the button to ON.

Step 7 Whether to enable the audio



The "Record Audio" panel shows a toggle switch set to "OFF". Below it are fields for "Disk Group" (set to 1), "Record Rule" (set to "Circle store while full"), and "Stream ID" (set to "stream1"). At the bottom, there is a text box showing video and audio encoding details.

Step 8 Configure the Storage Policy

Storage Policy you can select:

- When HDD is full, record cycle.
- Retention day time.

Step 9 Configure the HDD disk group.

There will be 2 HDD disk groups. We can set the recording to be recorded into two different HDD disk groups.

Step 10 Configure the record streams bit rates.

Step 11 Click Apply to save the configurations and exit the record policy interface.

-

9.1.7 Storage policy

In storage policy interface, you can do the following operates:

- Check the current HDD status.
- Check the HDD information details; include HDD capacity, free space.
- Unload and Format operates.

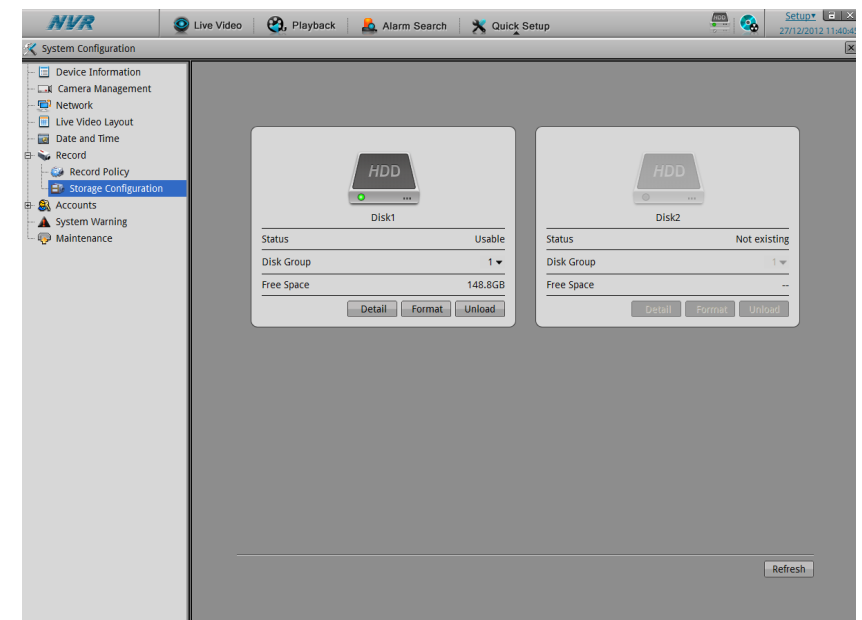
NOTE

Firstly using HDD need to format first otherwise the recording file cannot be written into the HDD.

Select System configuration>Record>Storage Configuration.

Enter the Storage Configuration, like Figure 4-40 showing.

Figure 4-40 Storage Configurations



The "Storage Configuration" interface shows two HDD status panels. The left panel for "Disk1" shows "Status: Usable", "Disk Group: 1", and "Free Space: 148.8GB". The right panel for "Disk2" shows "Status: Not existing", "Disk Group: 1", and "Free Space: --". Both panels have "Detail", "Format", and "Unload" buttons. A "Refresh" button is at the bottom right.

NOTE

To protect the HDD, before you plug out the HDD, you have to unload the HDD firstly.

9.1.8 Account Management

Privilege group setting

User's basic privilege includes:

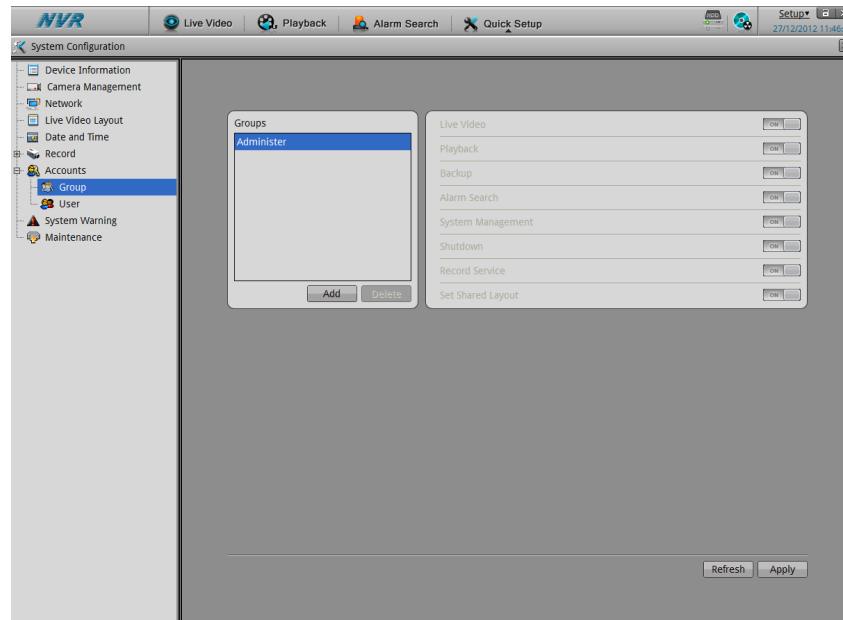
- Live video
- Playback

- Backup
- Alarm search
- System Management
- Shutdown
- Record service
- Set shared layout

Step 1 Accounts>Group

Enter the Group configuration interface, like Figure 4-41.

Figure 4-41 Group configuration interface



Step 2 Add and Delete Groups

- Add privilege group.
 1. Click Add
Call the Add Group interface.
 2. Input Group Name.
 3. Click OK.
Finished adding, return to the original interface.
 4. Select the groups which are added, and select the privileges which they can have.
 5. Click Apply to finish the adding.
- Delete Privilege group.
 1. Click Delete to call the Delete Privileges Group interface.

2. Click yes to return to the original interface.
3. Click Apply to finish the operation.

NOTE

System default privilege group is Administrators, which cannot be deleted and modified.

User setting

You can add and delete users, the users which have the privilege of system configuration can unlock the system which may be locked by serial login with incorrect password.

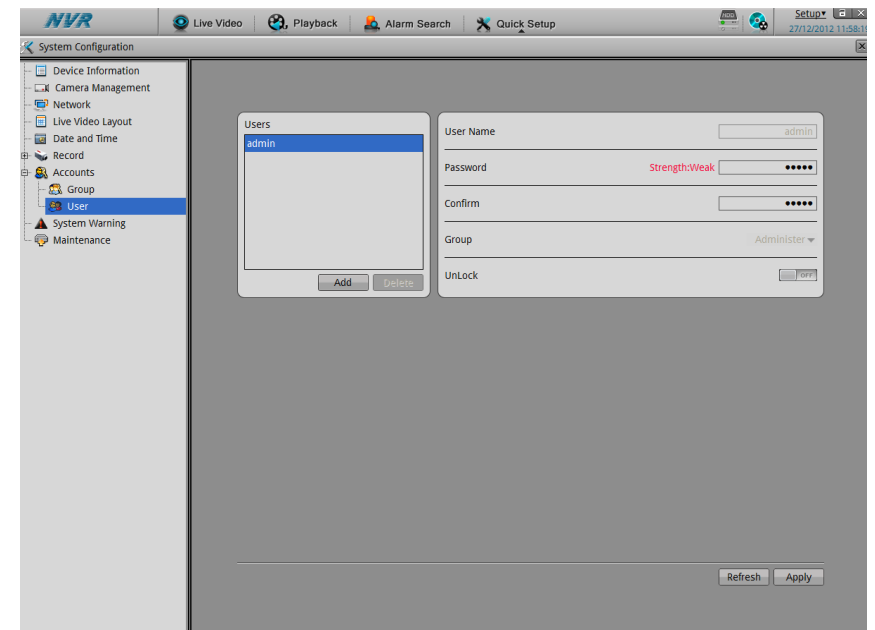
Step 1 System configuration>Account>User

Enter the user interface like Figure 4-42 showing.

Step 2 Add, Delete user.

- Add user
 1. Click add to call the add user interface.
 2. Input the user name.
 3. Click OK button.
Finish the adding user, return to the previous interface.

Figure 4-42 User configurations



4. Configure the user password and privilege group.

5. Click Apply to finish the user adding configuration.
 - Delete user.
1. Click delete to call the delete user interface.
2. Click yes to return the previous interface.
3. Click Apply to finish the user operates.

Unlock the locked user

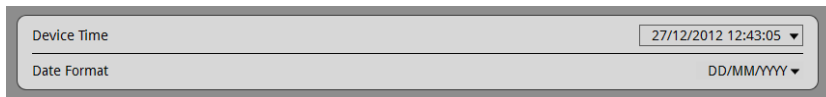
When login to the system, if the user input the wrong password more than 3 times, then the system will lock the user, but only the administrator can unlock the users.

9.1.9 Date and Time Configuration

You can set the Date and Time and also the Date Time format of NVR.

- Step 1** Setup>System Configuration>Date and Time,
Enter the date and time interface like Figure 4-43 showing.

Figure 4-43 Date and Time configuration



- Step 2** You can input the correct time.
- Step 3** Choose the date and time format which you want to use with.
-

9.2 Camera management

In the camera management interface we can configure the parameters of the cameras which have been added to the NVR.

They way how to configure the device from NVR and from WEB is same. Please reference the network cameras “IE Web browser interface Guide”.

10 Web Browser Access NVR

NVR Web Server, built-in Flash technology supports IE, Chrome, Firefox, Safari and other popular browsers. Can be quickly be configured through the Web, live preview, video playback, alarm retrieval, NVR configuration, camera configuration and other operations.

10.1 Login

The NVR default IP address is: network port 1 is 192.168.0.120, network port 2: 192.168.1.120. You can use a Web browser to access the IP address in the address bar input device, such as: connection through the Ethernet port 1, enter:
<http://192.168.0.120>

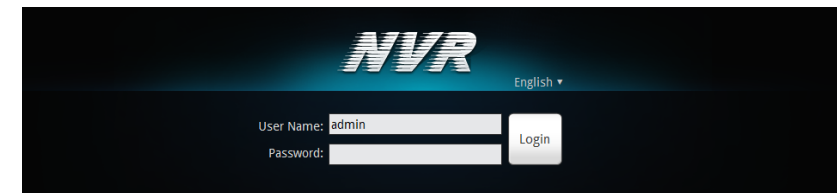


CAUTION

- Web access, please confirm that the network is properly connected, and the network is unobstructed, and you use the correct IP address
- The system must have the flash player installed before main system can be used.

NVR Web login screen shows in Figure 4-44.

Figure 4-44 NVR Login interface



Enter a user name and password into the login screen to enter the main page

User Name and Passwords both are **admin**



NOTE

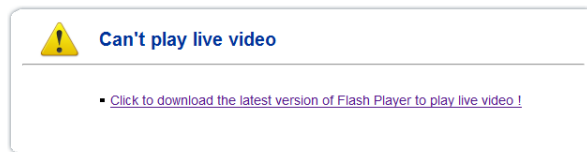
Super user: admin, super user password: admin. User names and passwords are case-sensitive. Please modify the password after the first login. After three tries the user will be locked, and will no longer be able to continue to log in until the administrator can unlock the user, how to unlock Check Network Video Recorder User's Manual " management.

10.2 Operation Read

10.2.1 Player

NVR Web Video function needs Adobe Flash Player to support, If not install the Adobe Flash Player or the player version is too low then it can't play the Video show in Figure 4-45.

Figure 4-45 can't play video interface

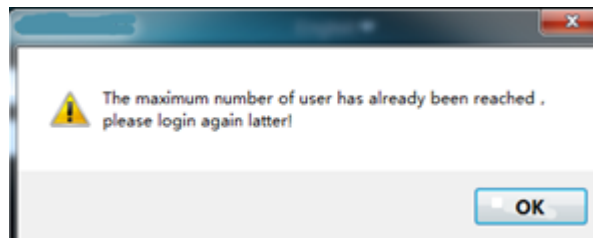


Please download and install the right Adobe Flash Player.

10.2.2 Video capability

NVR Web the max can support 4 users to access the Web and use the NVR at the same time, when online over 4 users a dialogue will be show as Figure 4-46.

Figure 4-46 Number of users exceed

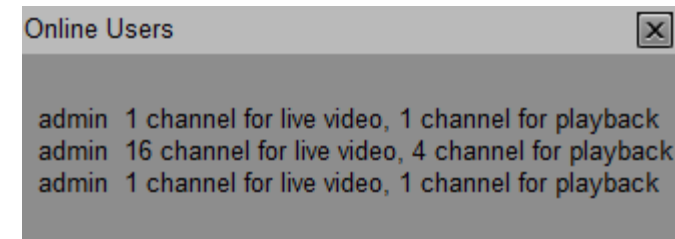


NVR Web only support 6 channel Live video and 1 channel playback for one user login (maximum ability),other users only support 1 channel Live video and 1 channel playback(minimum ability).

The first login user will be the maximum ability user. Other all are the minimum ability users .when the maximum ability user logout then the next user login in will be the maximum ability user.

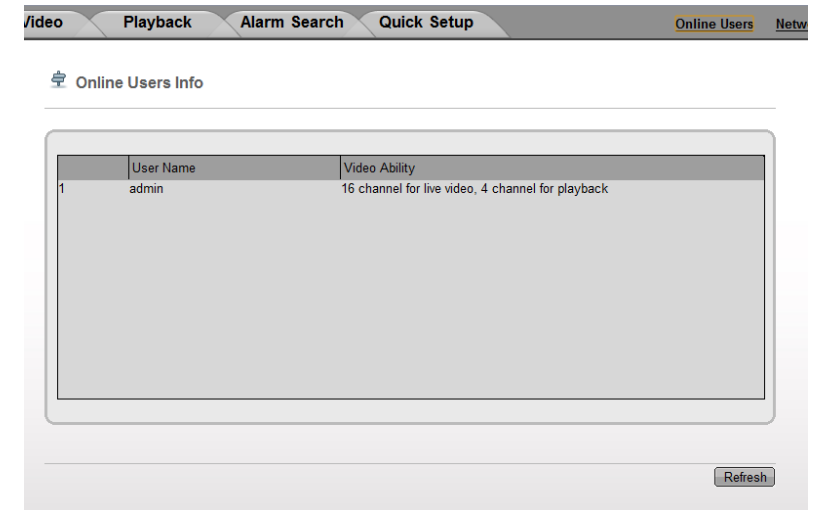
So NVR Web will adjust Video ability according the user login .when user login the right and bottom will show a message as Figure 4-47.

Figure 4-47 User Video ability information interface



Click the Online Users on the Web will enter the online users interface .from there we can see all online use's video ability show as Figure 4-48.

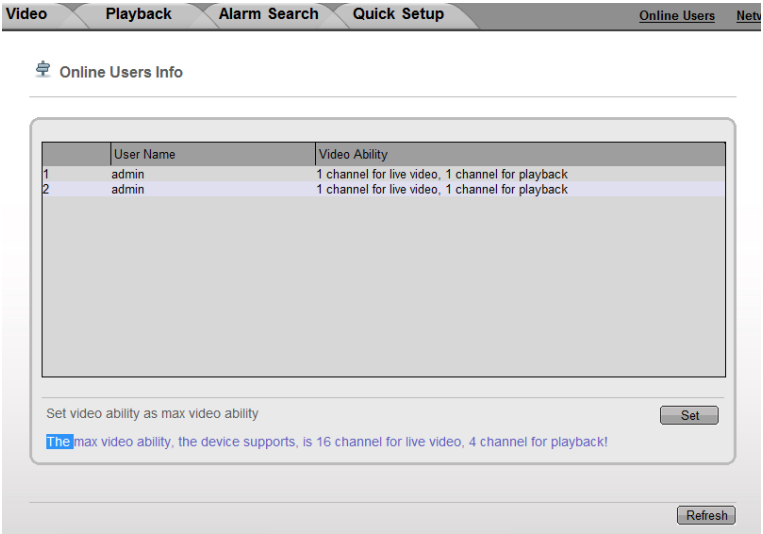
Figure 4-48 online users



Click Refresh can update the information.

If the maximum ability user logout, Online users interface changed and can be set .Show in Figure 4-49 then other users can set his video ability.

Figure 4-49 set user video ability

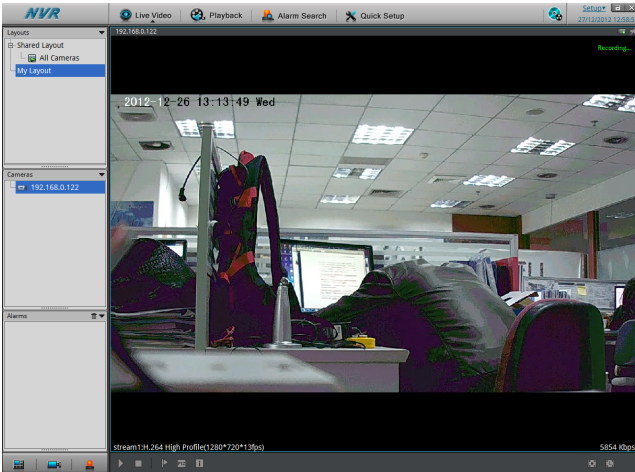


If other users set to be maximum ability the interface will back to Figure 4-49 and can't set the ability anymore. If setting failed a failed message will be display.

10.3 Live Video

After login the Web, we can see the live video by select the cameras show in Figure 4-50.

Figure 4-50 Live video





10.4 Playback

You can play back the video by Playback interface.






Operation Steps

Step 4 Click Playback to enter the playback interface show in Figure 4-51 .

Step 5 Select the camera that need to playback.

Click the camera of list,  means device was chosen,  means device was not chosen.

Step 6 Select date.


Check the date on calendar  、  change month,  、  change year.  Means the date chosen. If the date with Green color means this day exist video recorded, or will not.

Step 7 Video play

After select the date then the video display area can play the video .Above File axis is Recording time, the middle blue time represents the current video playback time.

File axis display equipment video, red alarm video, green for normal video.

Step 8 Video play

When select the date and camera then we can playback the video, show in Figure 4-51 control bar  button to begin play video.





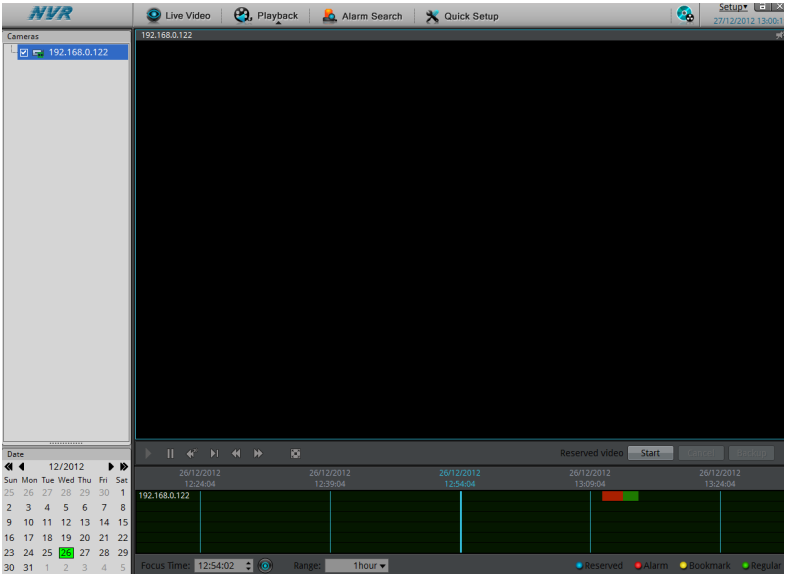
    : Play, Stop, Fast forward, Rewind

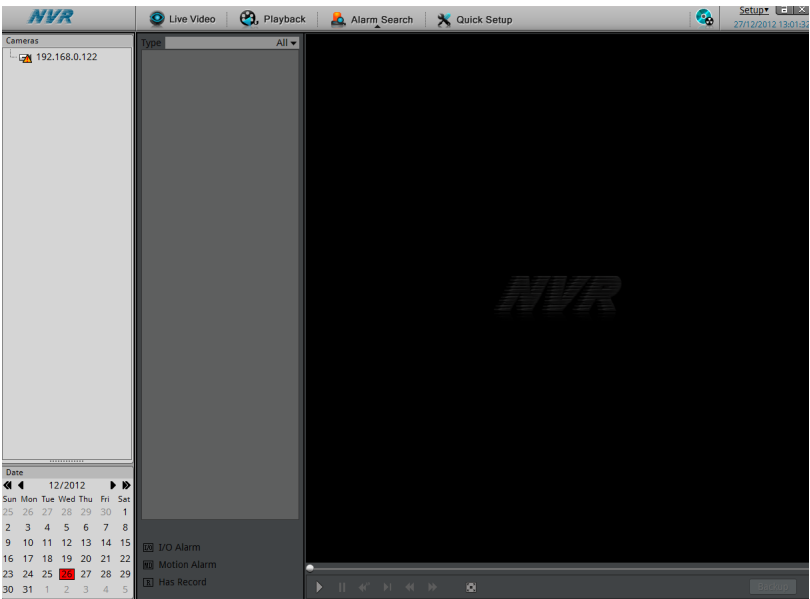
Figure 4-51 Playback



10.5 Alarm Search

Click the Alarm Search enter the alarm management interface show in Figure 4-52.

Figure 4-52 Alarm search



- Step 1** Choose the device on the left that need to see the alarm information.
- Step 2** Choose the alarm type by the bar Type.
- Step 3** Choose the date.

Check the date on calendar, ◀, ▶ change month, ◀◀, ▶▶ change year. 12 Means the date chosen. If the date with Red color means this day exist Alarm video recorded, or will not.

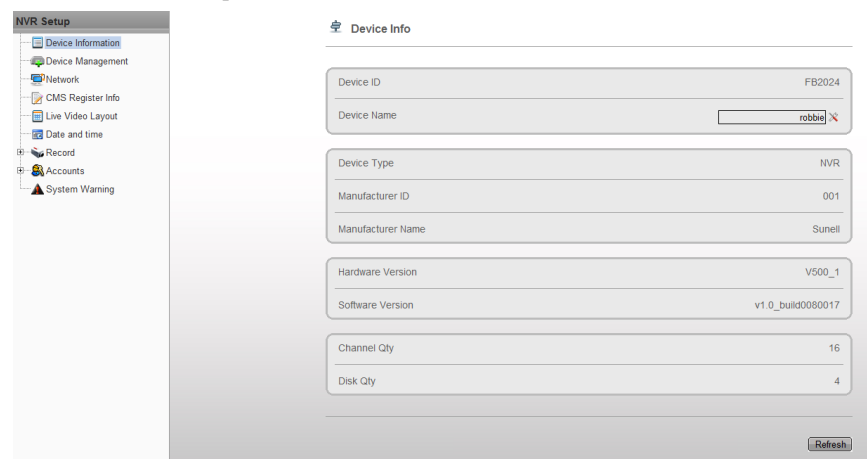
- Step 4** Video play.
After select the device and date, the alarm file will display below the Type. And click ▶ to begin play video.

10.6 NVR setup

Click the NVR Setup on the Web enter the NVR configure interface show in Figure 4-53.

(Detail setting please refer to 8.1 NVR setup)

Figure 4-53 NVR setup interface



The NVR Setup interface displays the 'Device Information' tab. The left sidebar contains a tree view with options: Device Information (selected), Device Management, Network, CMS Register Info, Live Video Layout, Date and time, Record, Accounts, and System Warning. The main area shows the following fields:

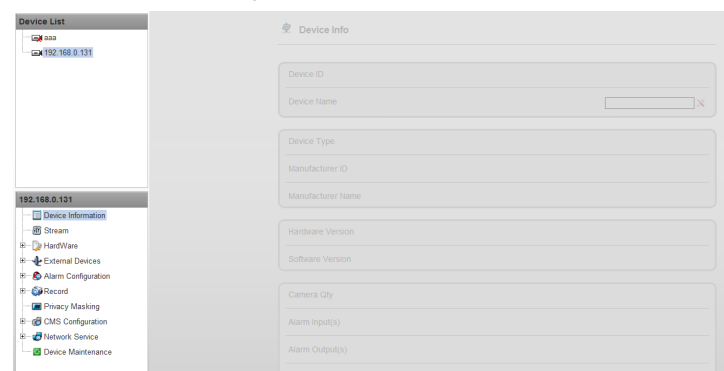
Device ID	FB2024
Device Name	robblej
Device Type	NVR
Manufacturer ID	001
Manufacturer Name	Sunell
Hardware Version	V500_1
Software Version	v1.0_build0080017
Channel Qty	16
Disk Qty	4

A 'Refresh' button is located at the bottom right.

10.7 Network Camera setup

Click the Network Camera Setup on the Web enter the camera configure interface shows in Figure 4-54.

Figure 4-54 camera configure interface



The camera configure interface shows a 'Device List' on the left with two entries: '192.168.0.131' (selected) and '192.168.0.131'. The main area displays the 'Device Info' for the selected device:

Device ID	
Device Name	
Device Type	
Manufacturer ID	
Manufacturer Name	
Hardware Version	
Software Version	
Camera Qty	
Alarm Input(s)	
Alarm Output(s)	
Source Device(s)	


Detail setting and operation please refer to <Web operationmanu>.

11 NVMS Access NVR

Operation condition

You have installed NVMS already. The NVMS client installation method please see "video network management system manual"

4.1 Start and Run

If you have installed NVMS please run it by this icon  to the Login interface.

11.1 Login

When the Login interfaces, enter default user name: **admin**. Password: **admin** show in Figure 4-55.

Figure 4-55 Login interface



The login interface for the Network Video Monitor System. It includes the following fields and options:

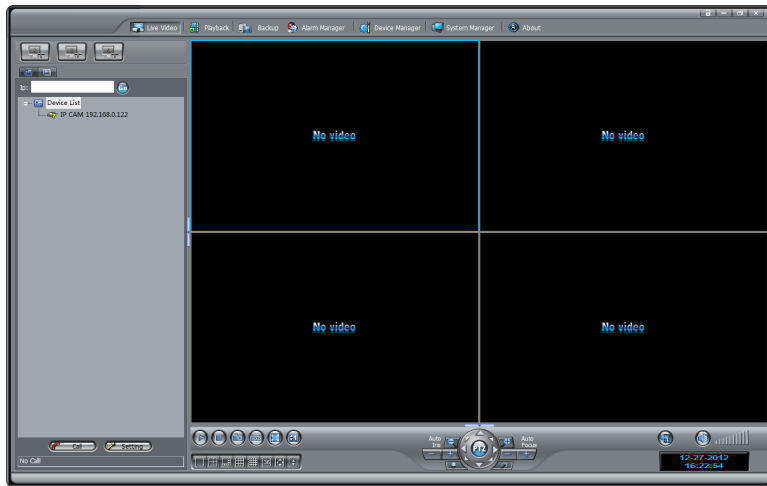
- User Name:
- Password:
- Language: **English** (dropdown)
- IP Protocol: **IP_V4** (dropdown)
- IP: **192.168.11.21** (dropdown)
- ☐ Remember my password
- ☐ Sign in automatically

At the bottom, there are 'Login' and 'Cancel' buttons.

11.2 System main interface

After enter the correct user name and password: click Login to system main interface show in Figure 4-56.

Figure 4-56 main interface



11.3 NVR management

After enter main interface, select Device manager->NVR management go to NVR configure interface.

4.1.1 Device Info

Operation description

NVR device info including:

- Device ID and Device Name
- Device Type, Manufacturer ID, Manufacturer Name
- Hardware Version and Software Version
- Camera Count and Disk Count

NOTE

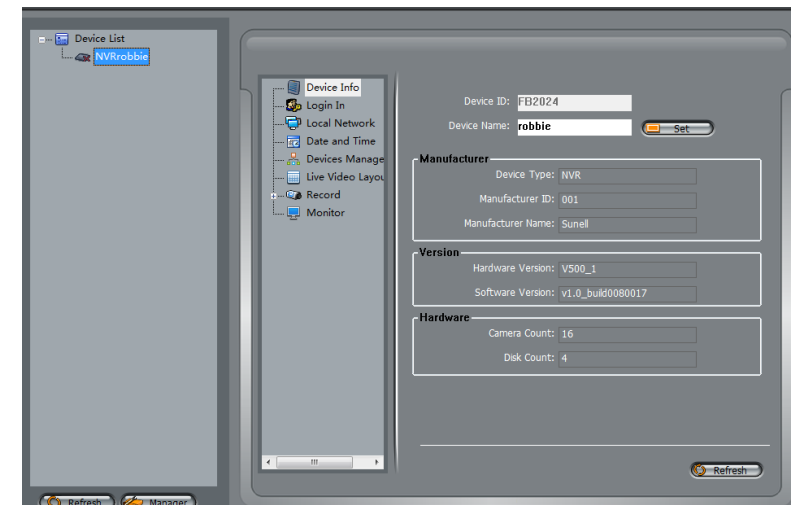
- Only Device Name can be edit ,other parameters can't be edit
- When device update the device info will auto update as well and will keep same step with the software version.

Operation Steps

Step 5 select Device manager->NVR management->Device Info

The NVR information will show as Figure 4-57.

Figure 4-57 Device info interface



Step 6 Set device Name, Enter the name and click Set .if successfully message will promote.

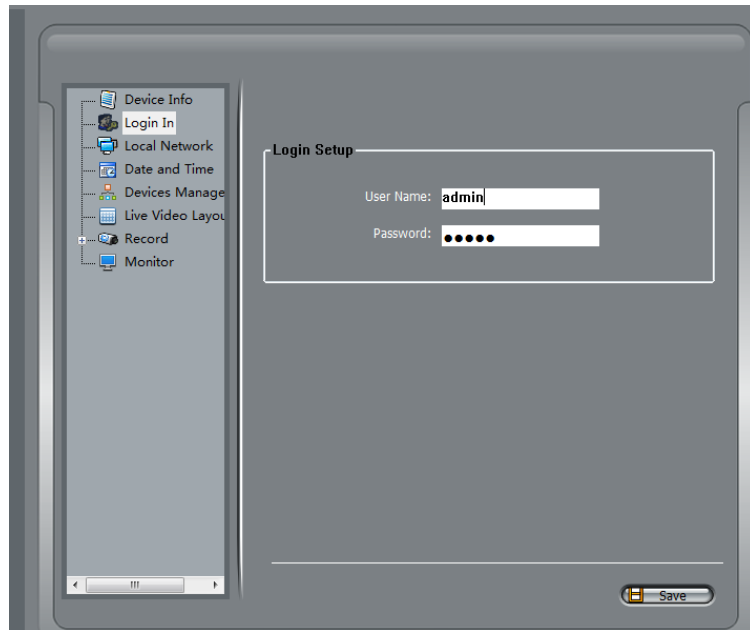
11.3.1 Login in

Login in interface can change the default user name and password.

Operation Steps

Step 1 Select Device manager->NVR management->Login in enter the interface show in Figure 4-58..

Figure 4-58 Login interface



Step 2 Enter the user name and password, and click Save to exist.

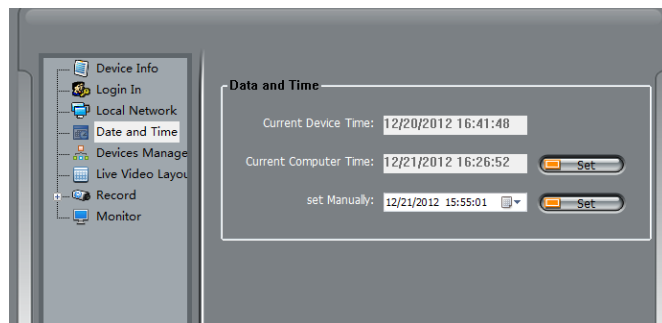
-

11.3.2 Date and Time

Change the date and time of NVR


Step 1 Select Device manager->NVR management->Date and time enter configure interface show in Figure 4-59.

Figure 4-59 date and time setting



Step 2 Change the NVR date and time

Click the Set button behind the Current Computer Time to sync the time from PC to device.

- Set the Computer current time to be NVR time.
- Set manually to change time.
- Click  button to call the date ActiveX.
- Set the date.
- Input the time after the date.

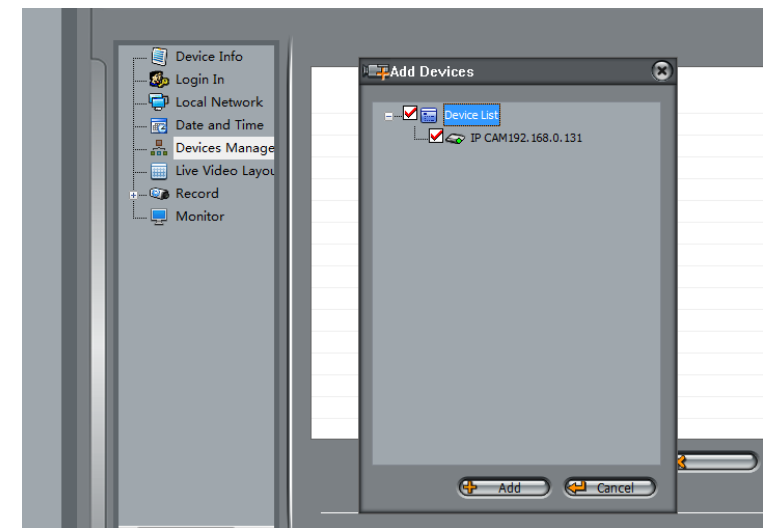
-

11.3.3 Device Management

Add / Delete the IP cameras to NVR through the Device management.

Step 1 Select Device manager->NVR management->Device management enter the device manager interface show in Figure 4-60.

Figure 4-60 device management



Step 2 Select the cameras and click Add.

Call the adding device interface, like Figure 4-61 to add all the network cameras.

Step 3 Select the cameras which you want to add into the NVR.

Step 4 Click Add to call the added ok, click OK, add the device successfully and exit the interface.

NOTE

Select the devices which you want to delete, click delete then can delete the cameras which you added

Step 5 Click Apply to call the “configure successfully interface”, click OK to save the configuration.

Figure 4-61 Add device

ID	Device Type	IP Address	Port	Device Name	Router Mapping	Router Addr
1	IP CAM	192.168.0.120	30001	aaa	N	
2	IP Dome	64.33.157.203	30001	ptz	N	
3	IP CAM	192.168.9.245	30003	Sunell	N	
4	IP CAM	192.168.0.120	30001		N	
5	IP CAM	192.168.0.120	30001		N	
6	IP CAM	192.168.0.120	30001		N	
7	IP CAM	192.168.0.120	30001		N	
8	IP CAM	192.168.0.120	30001		N	
9	IP CAM	192.168.0.122	30001		N	
10	IP CAM	192.168.0.131	30001		N	

☐ Select All

Device Type: Device Name:

Device IP: Control Port:

☐ Enable Router Mapping

Router Addr: Control Mapping Port:

Figure 4-62 record policy

Record Policy Setting

Schedule Record

☒ Enable

☐ 24*7 H ☐ Schedule ☒ Time Setting

Alarm Record

☐ Enable

Pre Record: sec(0-30) Post Record: sec

Record Audio

☐ Record Audio

DiskGroupId:

☒ Circle store while disk is full

☐ Number of D:

Stream:

Video Encode Type:H.264, Audio Encode Type:G711U, Resolution:1920*1080
FrameRate:30 fps, I Frame Interval:2, Bit Rate Type:VBR, Bit Rate:8000 bps, Quality:5

Step 2 Select the device and click Configure.

After promote the Record Policy Setting then can set the Schedule record, Alarm Record, audio record etc.

Step 3 Set the policy which you need.

Step 4 After you set the configuration click Apply to set.

11.3.4 NVR Record

NVR record can set the Record Policy and Record Storage.

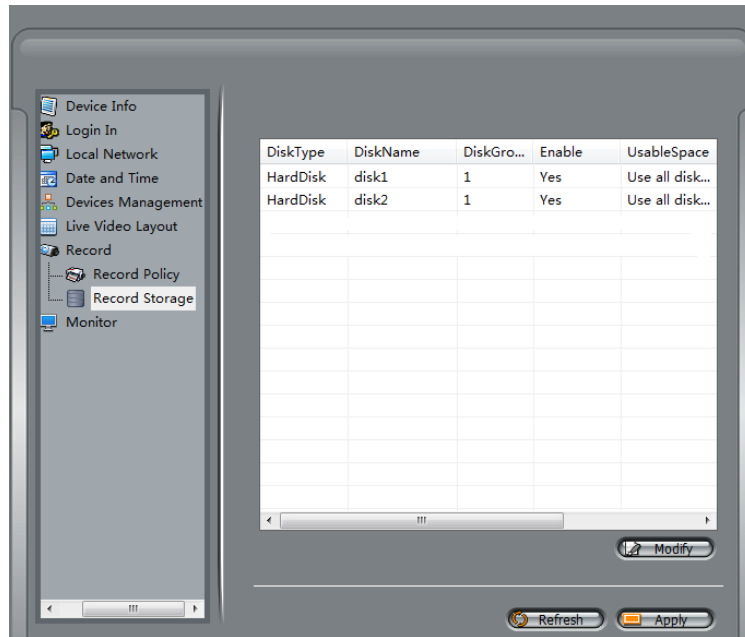
Record Policy

Step 1 Select device manager->NVR management->Record->Record Policy enter the record policy interface show in Figure 4-62.

Record Storage

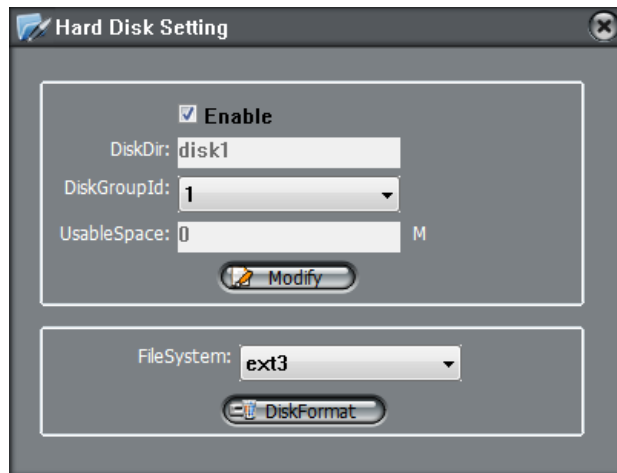
Step 1 Select device manager->NVR management->Record->Record Storage. Enter the record storage interface show in Figure 4-63.

Figure 4-63 Record Storage



Step 2 Select the Hard Disk and click Modify enter the path setting interface show in Figure 4-64.

Figure 4-64 Hard Disk Setting

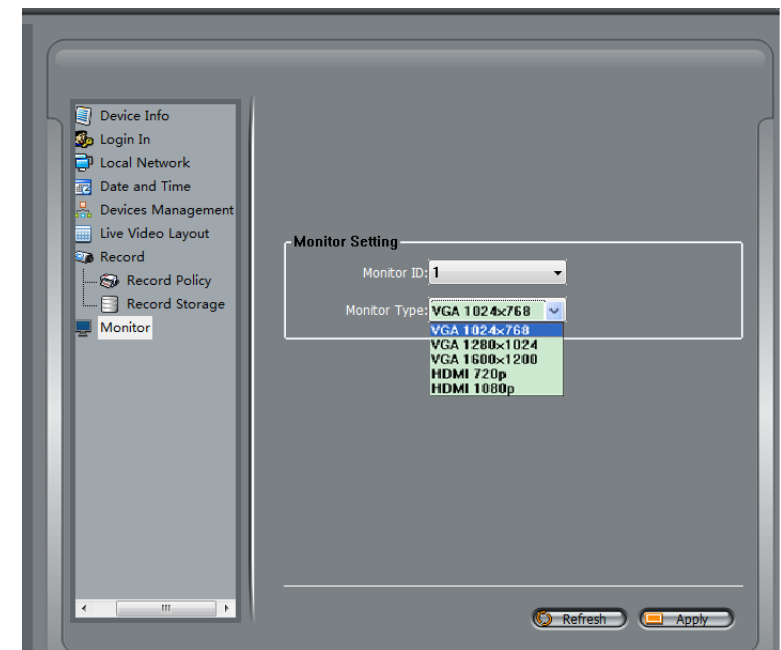


- Step 3** Select Enable.
- Step 4** Select the DiskGroupID.
- Step 5** Input the UsableSpace.
- Step 6** Click Modify to save the configuration and exit the interface.
- Step 7** Select the file system.
- Step 8** Click DiskFormat to format the disk. It will ask you all the information which has been saved in Disk will be cleared, if yes, then it will start to format.

11.3.5 NVR Monitor

NVR Bear panel has a VGA output and a HDMI output interface. Default NVR will output the VGA “VGA 1024×768”. User can adjust it as: **VGA 1024×768**、**VGA 1280×1024**、**VGA 1600×1200**、**HDMI 720P**、**HDMI 1080P** show in Figure 4-65.

Figure 4-65 Monitor configure



After change the configuration, the NVR will restart automatically.

11.4 Playback

NVMS can remote playback the NVR recording video.

4.1.1 Video Search and playback


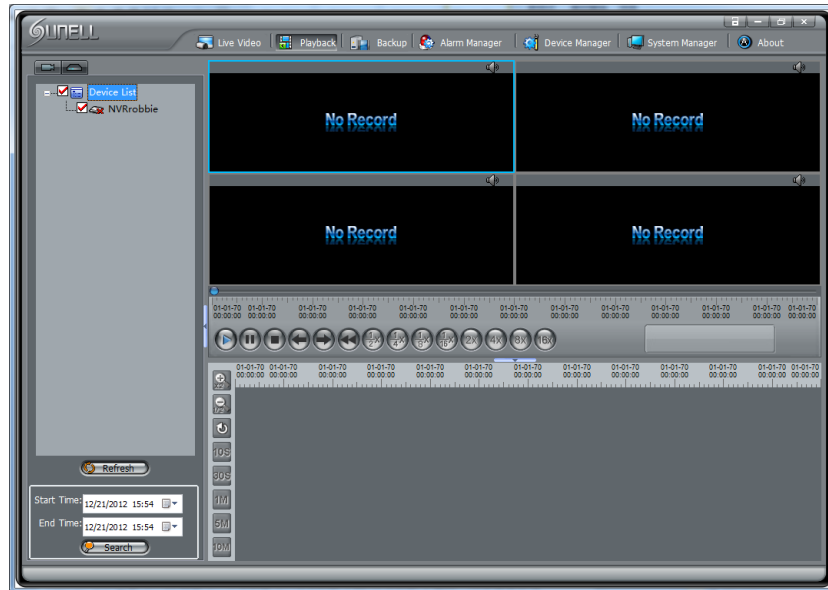
In the main interface, click Playback enter the interface, and click the NVR Icon”” enter NVR Playback show in Figure 4-66.

Figure 4-66 Playback



means: Play, Pause, Stop, back frame, forward frame, 1/2 fast forward, 1/4fast forward, 1/8fast forward, 1/16fast forward, 2fast forward, 4fast forward, 8fast forward, 16 fast forward.



Means: amplification, narrow, reduction, 10 seconds amplification, 30 second simplification, 1 minute's amplification, 5 minutes amplification, 10 minutes amplification. Use those button can control the time simplification and narrow.

The maximum playback channel is 16.

NOTE

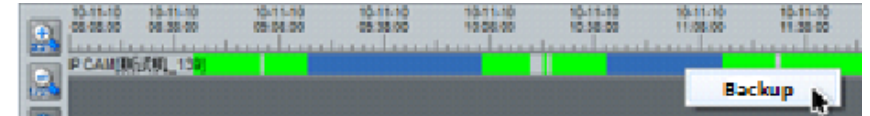
Query the start-stop time not more than 7 days, split screen display will be selected in accordance with the device for automatic screen. Green color is schedule record, red color is alarm record. Grey color is no video. Local path will read the video save path automatically.

11.4.1 Backup

Enter the Backup interface, select the video that need to backup by mouse drag on the time axis and right click mouse->Backup to start the video backup.

NOTE

Blue file on time axis is the video chosen for backup. Press Ctrl to select more part video.




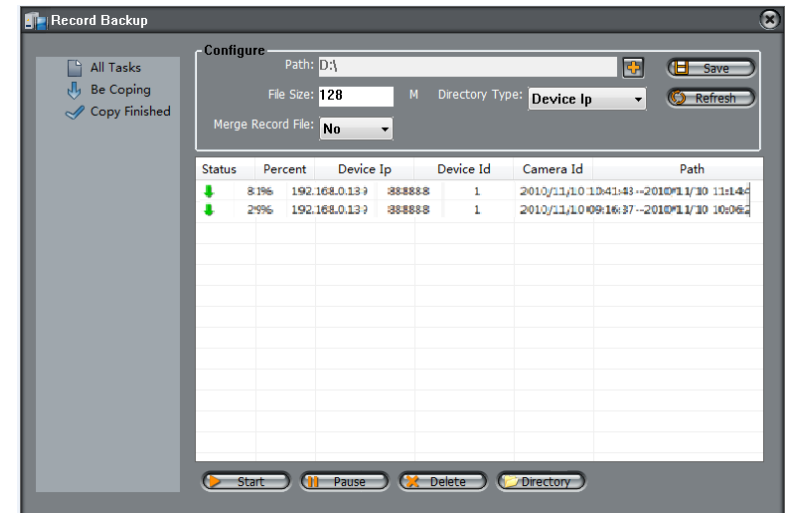
Click the  to the backup configure and check the task, setting the path and backup size show in Figure 4-67.

Figure 4-67 Backup



Click Directory and check the backup file has finished.